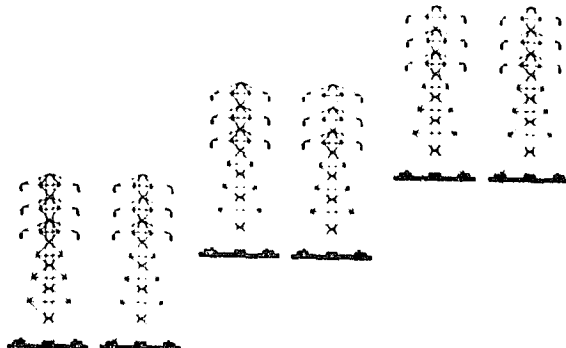
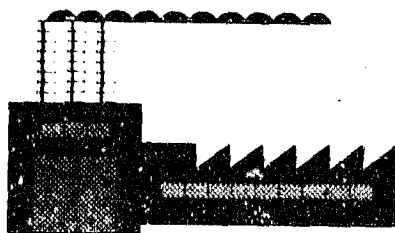


**ENERGY
CANADA**
Directory of Manufacturers and Consultants
in the Canadian Energy Sector



Prepared by:

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Industrial & Electrical Equipment & Technology Branch
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The Energy Council of Canada (E.C.C.)

The ECC is the national adhering body to the World Energy Council and was formerly designated as the Canadian National Committee of the World Energy Council, CANWEC. ECC is a non-profit organization funded by its membership who include industrial corporations, government departments and agencies. Its purpose is to promote discussion and exchange of information on all forms of energy, forging a better understanding between the public and private sectors and the public at large. This is achieved through annual energy fora attended by senior decision-makers from the public and private sectors, participation in the triennial congresses and study groups of the World Energy Council, and the dissemination of the results of these studies and meetings. The head office of ECC is located in Ottawa, Canada.

The World Energy Council brings together the heads of the energy industries from around the world. These include producers and consumers, energy practitioners in all fields, manufacturers of energy plants and equipment, politicians, economists, academics and scientists. The activities of the organization cover the technological aspects of all energy sources, both primary and secondary, from extraction to end use. In its committees and triennial congresses, it deals also with ecological, economic, social and political questions associated with the development and use of energy.

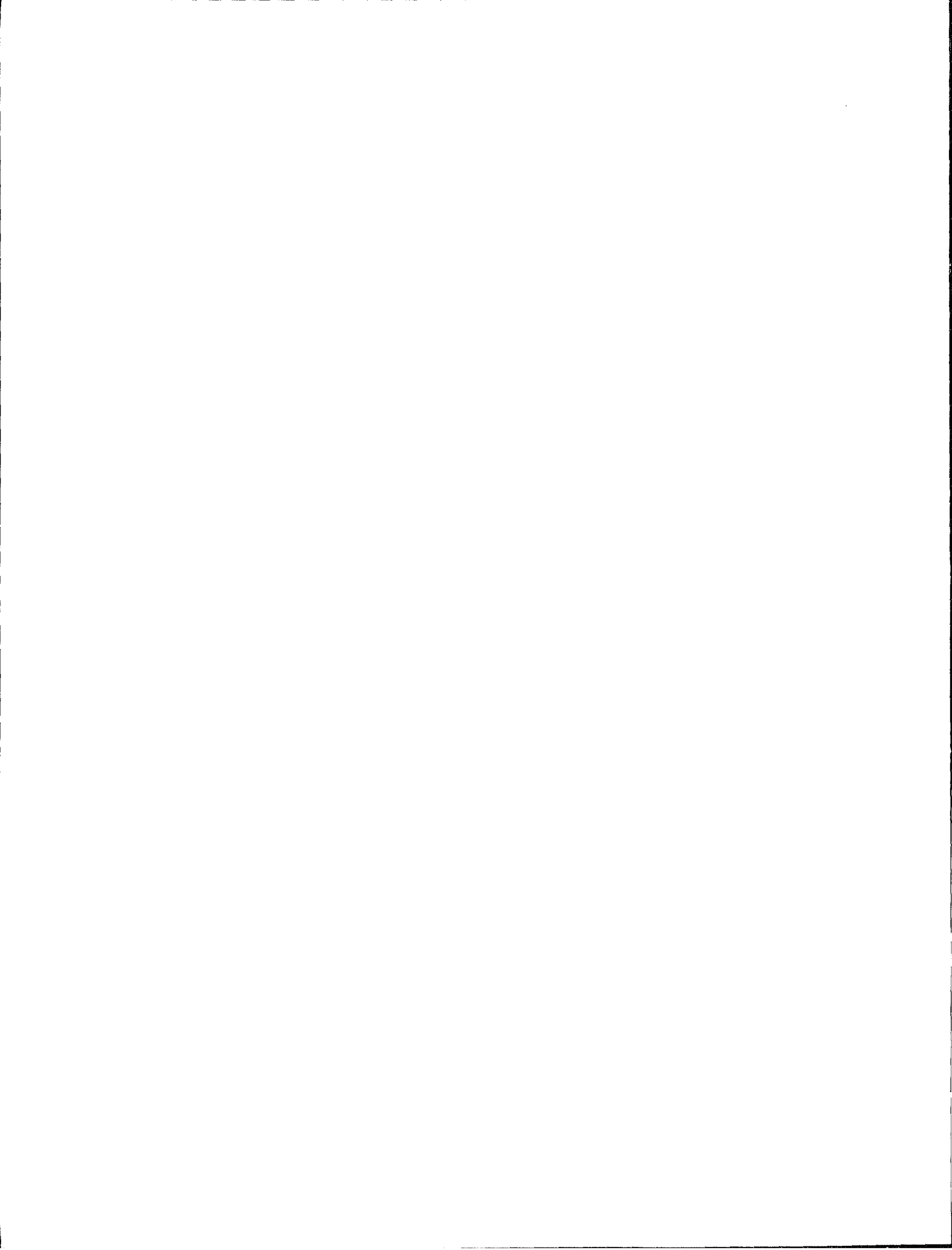
The ECC is a coalition of about 120 energy-related organizations and individuals. Membership is open to all Canadian organizations with a clear interest in energy and related fields. Listed in the following pages are the corporations, commissions and associations which are members of the ECC.

On the occasion of the 15th Congress of the World Energy Council in Madrid, ECC is pleased to join with **Industry, Science and Technology Canada**, in identifying Canadian players in the Equipment Manufacturing and Service sectors of the energy industry. These companies requires no introduction to the international energy community, and represent a powerful resource in providing **Energy For Tomorrow's World**.



G.W. (Scotty) Cameron
Chairman

Energy Council of Canada (ECC)
130 Albert Street, Suite 305
Ottawa, Ontario
Canada K1P 5G4
Tel: (613) 993-4624
Fax: (613) 993-7679



ENERGY COUNCIL OF CANADA - MEMBERSHIP INDEX

CORPORATE MEMBERS

Agra Industries Limited	2233 Argentinia Road - Ste 400 Mississauga, Ontario L5N 2X7
Alberta Energy Company Limited	2400 - 639 - 5th Avenue S.W. Calgary, Alberta T2P 0M9
Alberta Natural Gas Company Ltd.	2900 - 240 - 4th Avenue S.W. Calgary, Alberta T2P 4L7
Alberta Power Limited	10035 - 105 Street Edmonton, Alberta T5J 2V6
Alcan Aluminum Limited	1188 Sherbrooke Street West Montreal, Quebec H3A 3G2
Asea Brown Boveri	1410 Blair Place, Ste. 600 Gloucester, Ontario K1J 9B9
Babcock & Wilcox Canada	581 Coronation Blvd. Cambridge, Ontario N1R 5V3
B.C. Hydro	970 Burrard Street Vancouver, British Columbia V6Z 1Y3
Bennett, Jones Verchere	4500 Bankers Hall East 855 - 2nd Street S.W. Calgary, Alberta T2P 4K7
Canadian Environmental Energy Corporation	10 Gateway Blvd, Ste 110 North York, Ontario M3C 3A1
CAMECO	2121 - 11th Street West Saskatoon, Saskatchewan S7M 1J3



Industry, Science and
Technology Canada

Industrie, Sciences et
Technologie Canada

Canada

Canatom Inc.	2020 University Avenue, 22nd Floor Montreal, Quebec H3A 2A5
Consumers Gas Company Ltd.	100 Simcoe Street Toronto, Ontario M5H 3G2
Fording Coal Limited	1000 - 205 - 9th Avenue S.E. Calgary, Alberta T2G 0R4
General Electric Canada Inc.	107 Park Street North Peterborough, Ontario K9J 7B5
Home Oil Company Limited	1600-324 Eight Avenue S.W. Calgary, Alberta T2P 2Z5
Hydro-Quebec	75 Rene-Levesque Blvd., West Montreal, Quebec H2Z 1A4
Imperial Oil Limited	111 St. Clair Avenue West Toronto, Ontario M5W 1K3
Interprovincial Pipe Line Company	10201 Jasper Avenue Edmonton, Alberta T5J 3N7
Manitoba Hydro	P.O. Box 815 Winnipeg, Manitoba R3C 2P4
Maritime Electric Company, Limited	P.O. Box 1328 Charlottetown, Prince Edward Island C1A 1Y1
N.B. Power	515 King Street Fredericton, N.B. E3B 4X1
Newfoundland and Labrador Hydro Corp.	P.O. Box 12400 St. John's, Newfoundland A1B 4X7
Newfoundland Power	P.O. Box 8910, Station "A" St. John's, Newfoundland A1B 3P6



NOVA Corporation of Alberta

801 - 7th Avenue S.W.
P.O. Box 2535, Postal Station "M"
Calgary, Alberta
T2P 2N6

Nova Scotia Power

P.O. Box 910
Halifax, Nova Scotia
B3J 2W5

Ontario Hydro

700 University Avenue
Toronto, Ontario
M5G 1X6

Pan-Alberta Gas Ltd.

500 - 707 - 8th Avenue S.W.
Calgary, Alberta
T2P 3V3

Power Corporation of Canada

751 Victoria Square
Montreal, Quebec
H2Y 2J3

Saskatchewan Power Corporation

2025 Victoria Avenue
Regina, Saskatchewan
S4P 0S1

Shell Canada

400 - 4th Avenue S.W.
P.O. Box 100, Station "M"
Calgary, Alberta
T2P 2H5

Stone & Webster Canada Limited

Yonge-Eglinton Centre
2300 Yonge Street
Toronto, Ontario
M4P 2W6

Suncor Inc.

112 - 4th Avenue S.W.
P.O. Box 38
Calgary, Alberta
T2P 2V5

Sulzer Canada Inc.

P.O. Box 210
Pointe Claire-Dorval, Quebec
H9R 4N9

Synchrude Canada Ltd.

P.O. Bag 4023
9911 MacDonald Avenue
Fort McMurray, Alberta
T9H 3H5

TransAlta Utilities Corporation

P.O. Box 1900
Calgary, Alberta
T2P 2M1



Industry, Science and
Technology Canada

Industrie, Sciences et
Technologie Canada

Canada

TransCanada PipeLines

P.O. Box 1000, Station "M"
Calgary, Alberta
T2P 4K5

Trans Mountain Pipe Line Company Limited

Suite 900
1333 West Broadway
Vancouver, British Columbia
V6H 4C2

Trans Québec & Maritime PipeLine Inc.

Suite 2220
1 Place Ville Marie
Montreal, Quebec
H3B 3M4

CROWN COMPANIES

Atomic Energy of Canada Limited

344 Slater Street
Ottawa, Ontario
K1A 0S4

Nova Scotia Resources Limited

P.O. Box 2111, Station "M"
Halifax, Nova Scotia
B3J 3B7

Petro Canada

P.O. Box 2844
Calgary, Alberta
T2P 3E3

SOQUIP

1175 rue de Lavigerie
P.O. Box 10650
Sainte-Foy, Quebec
G1V 4P5

CONSULTING FIRMS

Acres International Limited

480 University Avenue
Toronto, Ontario
M5G 1V2

Bantrel Group Engineers Ltd.

9th Floor
703 - 6th Avenue S.W.
Box 1990, Station "M"
Calgary, Alberta
T2P 4C9

Bechtel Canada Engineers Limited

10 Gateway Boulevard
Suite 200
Don Mills, Ontario
M3C 3N8



Industry, Science and
Technology Canada

Industrie, Sciences et
Technologie Canada

The wordmark logo for Canada, featuring a stylized maple leaf above the word "Canada" in a serif font.

Canada

Monenco Consultants Limited

400 - 801 - 6th Avenue
Calgary, Alberta
T2P 3W3

SNC Lavalin Inc.

1100 Rene Levesque Blvd. W.-5th Floor
Montreal, Quebec
H3B 4P3

**ASSOCIATIONS REPRESENTING THE VARIOUS SEGMENTS OF THE ENERGY
AND FUEL INDUSTRY IN CANADA**

**Association of Consulting
Engineers of Canada**

Suite 616
130 Albert Street
Ottawa, Ontario
K1P 5G4

Biomass Energy Institute Inc.

1329 Niakwa Road East
Winnipeg, Manitoba
R2J 3T4

Canadian Electrical Association

Suite 1600
One Westmount Square
Montreal, Quebec
H3Z 2P9

Canadian Gas Association

55 Scarsdale Road
Don Mills, Ontario
M3B 2R3

Canadian Institute of Energy

1333 West Georgia Street
Vancouver, B.C.
V6E 3K9

**Canadian Institute of Mining,
Metallurgy and Petroleum**

3400 de Maisonneuve Blvd. West
Suite 1210
Montreal, Quebec
H3Z 3B8

Canadian Manufacturers' Association

913- 350 Sparks Street
Ottawa, Ontario
K1R 7S8

Canadian Nuclear Association

725 - 144 Front Street West
Toronto, Ontario
M5J 2L7

Canadian Petroleum Association

Suite 3800
150 - 6th Avenue S.W.
Calgary, Alberta
T2P 3Y7



Industry, Science and
Technology Canada

Industrie, Sciences et
Technologie Canada

Canada

Canadian Pulp and Paper Association

19th Floor Sun Life Building
1155 Metcalfe Street
Montreal, Quebec
H3B 2X9

Coal Association of Canada

Suite 502
205 - 9th Avenue S.E.
Calgary, Alberta
T2G 0R3

**Electrical & Electronic Manufacturing
Association of Canada**

10 Carlson Court, Suite 500
Rexdale, Ontario
M9W 6L2

**Independent Petroleum
Association of Canada**

700 - 707 - 7th Avenue S.W.
Calgary, Alberta
T2P 0Z2

McMaster Institute for Energy Studies

1280 Main Street West
General Sciences Room 203
Hamilton, Ontario
L8S 4M4

Municipal Electric Association

Box 2004
20 Eglinton Avenue West
Toronto, Ontario
M4R 1K8

Solar Energy Society of Canada Inc.

Ballinafad Research
P.O. Box 97
Ballinafad, Ontario
N0B 1H0



Industry, Science and Technology Canada
Industrie, Sciences et Technologies Canada


Canada

ELECTRICAL EQUIPMENT MANUFACTURERS AND CONSULTANTS
including Thermal, Hydro and Alternate Energies



Industry, Science and
Technology Canada

Industrie, Sciences et
Technologie Canada



Canada

Introduction

The Canadian electrical power sector has developed a world class, world competitive technology. Vast quantities of falling water have made Canada the world's largest producer of hydroelectric power. The immense power requirements of our large resource industries, along with the challenge of equipping long-distance transmission systems in severe climatic conditions resulted in the development of a world-class Canadian industry. Because of Canada's unique requirements, important R&D has resulted in custom-engineered products in which Canadian firms are world leaders. These include hydroelectric turbines and generators, large electric motors, and extra-high voltage utility equipment such as transformers, air-blast breakers and line reactors. Canadian manufacturers, consulting engineers, constructors, and utility operators have helped build electric power projects in over 70 countries around the world. Equally important is Canada's experience in providing an ongoing, reliable source of electrical goods and services of every description.

Product quality is also a major strength and has been a key to success in the world's electrical markets. Products in the Canadian industry must meet the stringent requirements of the Canadian Standards Association, whose norms are among the world's most rigorous. Canadian electrical manufacturing must also meet the very stringent quality standards required to cope with Canada's severe climatic conditions, as well as the severe operating conditions in Canada's large resource industries.

This directory provides a brief summary of the capabilities of Canadian firms having proven abilities to respond and adapt to the world's electrical energy needs.



Alphabetical Listing of Companies

A. Comeau & Associates Ltd.
 A.B. Chance Co. of Canada Ltd.
 ABB Combustion Systems Canada
 Acier Girole Inc.
 Acres International Limited
 Adecon Energy Systems Inc.
 Aerovox Canada Limited
 Agema Infrared Systems Ltd.
 Agro Wind Energy Systems Ltd.
 Alcan Wire and Cable
 Alcatel Canada Inc., SEL Division
 Alcatel Canada Wire Inc.
 Allanson Div. of Jannock Electrical
 Products Inc.
 Allen-Bradley Canada Limited
 Alles Corp.
 Alliance Ballasts
 Alpha Technologies Ltd.
 Alupower Canada Limited
 AME Microsystems Engineering Ltd.
 Amerace Ltd.
 AMP of Canada
 Anamet Canada Inc.
 Andrew Canada Inc.
 Appleton Electric Limited
 Argus Technologies Ltd.
 Argus Telecom International
 Armstrong Monitoring Corporation
 Aircraft Electric Limited
 Arva Crane
 Ascolectric Limited
 Asea Brown Boveri Inc.
 Astris Inc.
 AstroPower Canada Ltd.
 ASW Computer Systems Ltd.
 ATC-Frost Magnetics

B.C. Hydro International
 Babco Electric & Engineering Ltd.
 Babcock & Wilcox Canada
 Bach-Simpson Limited
 Bailey Canada Inc.
 Ballard Power Systems Inc.
 Barber Waterpower Products Ltd.
 Battery Technologies Inc.
 Battronics Inc.
 Bauer Gearmotors Ltd.
 Beel Electronics Inc.
 BEL Products Inc.
 Berocan Inc.
 Bestek Micro Devices & Systems Inc.
 BG Checo International Ltd.

Bier Marketing Inc.
 Boundary Electric () Ltd.
 Brockton Electronics Ltd.
 Broman Engineering Ltd
 Burndy Inc.
 C-Can Power Systems
 C&D Charter Power Systems Canada Inc.
 Cable Test International Ltd.
 CAE Electronics Limited
 Cam Tran Co.
 Canadian Process & Control Ltd.
 Canadian Contacts & Supply Inc.
 Canadian Shunt Industries Ltd.
 Canadian International Power Services
 Inc.
 Canatom Inc.
 Canterra Electronics International Inc.
 Carbone of America (LCL) Ltd.
 Carte International Inc.
 Cleveport Industries Ltd.
 Columbia Electric Inc.
 Columbia/MBF
 Commander Electrical Materials Inc.
 Conex Power Products Inc.
 Contracteur Boulianne Ltee (CBL)
 Control Microsystems Inc.
 Cooper Lighting, Division of Cooper
 Industries Inc.
 Cooper Industries, Belden Wire & Cable
 Copal (Canada) Ltee
 Cormag Inc.
 Crippen Consultants, Division of H.A.
 Simons
 Criterion Instruments Ltd.
 Crosslink Technology Inc.
 Crouse-Hinds Canada Limited
 CTS of Canada Limited
 Cullen Canadian Inc.
 Cumming Cockburn
 CVDS Inc.
 Cyme International Inc.

Daly's Inc.
 Danfoss Manufacturing Company Limited
 Davis Controls Limited
 DBS Escher Wyss Inc.
 Deca Cables Inc.
 Delco Industries Ltd.
 Delta Transformer of Canada Ltd.
 Dependable Turbines Ltd.
 Desig. Electrical Manufacturing
 Dessau Inc.
 Dicon Systems Limited
 Dilor Architectural Dimming Systems
 Displayco Ltd.
 Domtar Inc. Wood Preserving Division
 DRB Engineering Consultants Ltd.

Duracell Canada Inc.
 Durmitor Inc.
 E.D. Products Limited
 Eastern Wire and Conduit Ltd.
 Econolite Canada Inc.
 Edwards International
 EHV Weidman Industries Ltd.
 El-Met Parts Inc.
 Electric Power Accessories Co. Ltd.
 Electrical Contacts Limited
 Electrical Testing Instruments Ltd.
 Electro Porcelain Co. Ltd.
 Electro Canada
 Electro-Mécanik Inc.
 Electrofuel Manufacturing Co. Ltd.
 Electrolyser Corporation Ltd.
 Electronic Surveillance Corporation
 Elektronik Micro Tech Inc.
 Electrotek Ltd.
 Elicon Industrial Controls Ltd.
 Elkon Inc.
 Elmec Engineering Ltd.
 Emerson Electric Canada Limited
 Erico Canada Inc.
 Evans Consoles Inc.
 Eveready Canada Inc.
 Exide Electronics Canada Inc.

F-P Electronics
 Fasco Motors Ltd.
 Federal Pioneer Ltd.
 Ferguson Engineering Services Inc.
 Ferranti-Packard Transformers Ltd.
 FES International Ltd.
 Fleck Manufacturing Inc.
 Flexilume Canada
 Fortran Traffic Systems Limited
 Foster Wheeler Limited
 Franklin Playford Inc.
 Franklin Electric of Canada Limited
 FRE Composites Inc.

G&W Electric Ltd.
 GE Canada
 GE Canada (Hydroturbines and
 Generators)
 GEC Alstom Electromecanique Inc.
 GEC Alstom Energie Inc.
 Gentec Inc.
 Geotherm Inc.
 Global Thermoelectric Inc.
 Globex Canada/Ber-Mac Electrical Ltd.
 GNB Batteries (Canada) Inc.
 Gould Shawmut Co.
 Grenmont Ltd.
 GTE Sylvania Canada Ltd.
 Guillemin International Inc.



Hamilton Porcelains Limited
Hammond Manufacturing Company Limited
Harbour Industries (Canada) Ltd.
Harris Farinon Canada Inc.
Heinemann Electric Canada Ltd.
Herbrand Tools Corporation
Heron Cable Industries Limited
Hewitt Equipment Limited
Hi-Test Detection Instruments Ltd.
Hillmar Industries Ltd.
Holophane Canada Inc.
Howden Group Canada
Hubbell Canada Inc.
Hydro-Quebec International
Hydrolec Turbines Inc.

Iconopower Limited
Indal Technologies Inc.
Indepor Inc.
Industrial Commutator Company Ltd.
Industrial Equipment Co. Ltd.
Instrumar Limited
Intelcan Technosystems
International Irrigation Systems Ltd.
Interprovincial Corrosion Control Company Limited
Inverpower Controls Ltd.
IPC Resistors Inc.
Iris Power Engineering
ITT Cannon

J.A. Faguy & Fils Ltee
J.R. Salmon
Jack Otis
Jannock Electrical Products Inc.
Joslyn Canada Inc.

K-Line Insulators Ltd.
Kaufel Group Ltd.
Kearney National Canada Ltd.
Keene-Widelite
Klockner-Moeller Ltd.
KWK Industries International

La Prairie Electrical Products Ltd.
La Compagnie De Profiles Reynolds
LabVolt (Quebec) Ltd.
Leecraft Industries Ltd.
Lenbrook Industries Limited
Leroy-Somer Canada Ltee/Ltd
Leviton Manufacturing of Canada Ltd.
Lightolier Canada Inc.
Lincoln Electric Co. Canada Ltd.
Lisle-Metrix Ltd.
Loeweld Inc.
London Mat Industries Ltd.
Luinacell Incorporated

Lumec Inc.
Luminac Inc.
Lumitrol Ltd.
Lyster Industries Inc.

Magnacharge Battery Corporation
MagneTek Polygon Transformer Co.
Manitoba HVDC Research Centre
Manitoba Hydro
Marcus Transformer Of Canada Ltd.
Marine Safe Electronics Canada Ltd.
Markham Electric Limited
Marr Electric Limited
Maxilite Mfg. Ltd.
McPherson & Thom (Alberta) Ltd.
Mechron Energy Ltd.
Megatron Electric Ltee
Mep Technologies Inc.
Merlin Gerin Canada Ltee
Metalumen Manufacturing Inc.
Milltronics
Miura Boiler Co., Ltd.
MMC Canada Enterprises Inc.,
Moli Energy () Ltd.
Moloney Electric Corp.
Monenco Consultants Limited
Morgan Schaffer Corp.
Multi-AMP Canada Ltd.
Multilin
NCA/Acrow-Richmond, Div. of
Premetalco Inc.
NEI Mining Equipment Canada
NEI Parsons Canada Limited
NIFE Corporation
Nocom Manufacturing Ltd.
Norups Inc.
NorWester Energy Systems Ltd.
Nova Energy Ltd.
Novatronics Inc.

Omega Controls () Ltd.
Ontario Hydro - New Business Ventures Division
Ottawa Precision Balance Engineering Ltd.

PAC Process Automation Controls Ltd.
Pacific Rim Polytech Corp.
Patton & Cooke Ltd.
PCG Switchgear Ltd.
Peerless Electric Co. Ltd.
Phillips Electronics Ltd.
Phillips Cables Limited
Philtek Electronics Ltd.
Pilgrim Technical Products Ltd.
Pirelli Cables Inc.
Pirelli Cables Inc.
Pocatec Ltd.

Pole-Lite Ltd.
Polesystems () Inc.
Poltec Industries Ltd.
Polytech Electrical Products
Positron Industries Inc.
Power Measurement Ltd.
Power Smart Inc.
Power Battery (Iberville) Ltd.
Powerplex Technologies Inc.
Powertech Labs Inc.
Prairie Ditching Ltd.
Precision Paper Tube Ltd.
Pressenk Instruments Inc.
Pribusin Inc.
Prism Systems Inc., Lentrionics Division
Progressive Lighting Systems Mfg. Ltd.
Promac Inc.
Protek Consultants Inc.
Pyle-National of Canada Inc.
Pylon Electronics Inc.
Pyrotex/A Division of Phillips Cables Ltd.

Quali-Metal Inc.

R&S Enviro Products Limited
Racal-Decca Canada Ltd., Insulators Division
Raffin Electric Co. Ltd.
Ram Air Manufacturing Ltd.
Ranco Controls Canada Ltd.
Relcon Inc.
Reliance Electric Limited
Renfrew Electric Co. Limited
Resource Ventures Inc.
Rex Manufacturing
Reynolds Cable Company Ltd.
Robroy Industries Limited
Roger Girard Inc.
Rousseau Sauvé Warren Inc.

S.D. Systems
S&C Electric Canada Ltd.
SACO Controls Inc.
Saf Drive Systems Inc.
Sales & Marketing
Saskatchewan Power Corp.
Scepter Mfg. Co. Ltd.
Sci-Tec Instrument Inc.
Securiplex Technologies, a Division of
SNC Industrial SEW
SEW-Eurodrive Company of Canada Ltd.
Shawflex Inc.
Shawinigan Lavalin Inc.
Shawinigan Integ Inc.
Sherman Lighting Ltd.
Siemens Electric Ltd.



Siemens Automotive Limited - BCL
Magnetics Plant
Simpson Power Products Ltd.
Simson-Maxwell
Smith & Stone () Inc.
SNC Lavalin Inc.
Snemo Ltd.
Snoc Inc.
Softac Systems Ltd.
Sola Canada, A Unit of General Signal
Spectrodyne System International Ltd.
Square D Canada Electrical Equip. Inc.
SSF Industries Inc.
Startco Engineering Ltd.
Stacion Ltd.
Stephens Equipment Inc.
Stephens Analytical, Inc.
Sunset Solar Systems Ltd.
Surrette Battery Company Limited
Syprotec Inc.

T.D. Micronic Inc.
Technologies Inc.
Tecsult Inc.
Tekmar Control System Ltd.
Teledyne Still-Man Canada
Telemecanique Canada Ltee
Temco Electric Products Company Inc.
Tenatronics Limited
Teshmont Consultants Inc.
Teston Gauge Limited
Thermo Electric (Canada) Limited
Thermon Canada Limited
Thomas & Betts
Thomas Lighting Ltd.
Thomson Technology Inc.
Thyristor Devices Ltd.
Tideland Signal Canada Ltd.
Timberland Equipment Limited
TIR Systems Ltd.
TME-Delta Inc.
Topping Electronics
Tracon Engineering Inc.
Transelec Inc.
Transformateurs P.M. Ltee
Trench Electric
Tridem Manufactured Products Inc.
TriVar Inc.
Trylon Manufacturing Co. Ltd.
Tycor International Inc.
Unilight Limited
United Electric Controls (Canada) Ltd.

Varta Industrial Batteries Ltd.
Vibro-Meter Inc.
Visioneering Corp.
Volcano Energy Systems Inc.
Vortek Industries Ltd.

Vulcan Electric Co. Inc.

WECO Electrical Connectors Inc.
Weidmuller Ltd.
West Coast Engineering Ltd.
Westcan Electric Heating Inc.
Westech Information Systems Inc.
Western System Control Ltd.
Western Integrated Technologies Inc.
Western Industrial Programming
Westinghouse Canada Inc. Power
Generation Group
Westinghouse Canada Inc. Industries
Group
Westinghouse Motor Company Canada
Ltd.
Westinghouse Canada Inc.
Westronic Inc.
Willowglen Systems Ltd.
Wodex Technology Inc.

Xantrex Technology Inc.

York-Lithonia Lighting Company



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Company Profiles

ALARM SYSTEMS

Dicon Systems Limited

719 Clayson Road
TORONTO (WESTON), Ontario
M9M 2H4
Tel: (416) 745-6044
Fax: (416) 745-0613
Export/Marketing Contact:
Mr. Don Park
Product Manager-Smoke Alarms

Dicon Systems Limited designs and manufactures a complete line of ionization and photoelectric smoke alarms, gas alarms, the Dicon 9000 Security System, and Emergency Response Systems. As one of the world's largest manufacturer of residential smoke alarms, Dicon manufactures both photoelectric (no radioactive material) and ionization alarms in battery and hardwired, 120/220-240 VAC, models. Dicon's gas alarms detect both natural gas and propane gas. Dicon's patented Security System is wireless complete with built in telephone dialer and voice chip.

Industry Sector: Alarm Systems

Edwards International

6300 Northwest Drive
MISSISSAUGA, Ontario
L4V 1V7
Tel: (416) 678-6767
Fax: (416) 678-2872
Export/Marketing Contact:
Mr. Clive Milo
Export Manager

Edwards is a major manufacturer and supplier of electrical signalling equipment, including fire detection systems standard and addressable, Nurses Call and Clock Systems. In addition, the company produce a broad range of electrical and electronic signals including bells, horns, buzzers, chimes, sirens and annunciators for commercial and heavy duty industrial applications.

Industry Sector: Alarm Systems

Electronic Surveillance Corporation

275A Steelcase Road East
MARKHAM, Ontario
L3R 1G3
Tel: (416) 475-0552
Fax: (416) 475-5623
Export/Marketing Contact:
Mr. Jack Duggan
President

Electronic Surveillance Corporation (ESC) is a provincially chartered manufacturing company which has been serving the needs of the fire and securities industries since 1978. From its headquarters in Markham, Ontario, ESC produces over 50 advanced security products of the highest quality, including control units, sensing and detection devices, zone annunciators, data communication modules, data acquisition and multiplex equipment, microprocessor and microcomputer hardware and CAD/CAM Systems. Where applicable, the products are stringently tested and then approved and listed by ULC.

Industry Sector: Alarm Systems

Securiplex Technologies, a Division of SNC Industrial Technologies Inc.

210 Brunswick Boulevard
POINTE-CLAIRE, Quebec
H9R 1A6
Tel: (514) 697-8002
Fax: (514) 697-9525
Export/Marketing Contact:
Mr. V. Gameiro
Director, Business Development

Established in 1979, Securiplex is a high-technology company, providing design, engineering, manufacturing and integration of marine and industrial fire detection systems and services to industry and government clients around the world. From the simple fire protection system to complete building management and environmentally qualified naval damage control systems, Securiplex personnel have the proven capability of integrating individually engineered components into

a shipboard or plant environment. Securiplex has introduced its new Series 1000, a family of microprocessor based fire detection control units. From the simple 8-zone fire alarm and control panel to a fully addressable system, the Series 1000 family of products has been created to provide the system designer unprecedented flexibility in the configuration of the fire detection and alarm systems.

Industry Sector: Alarm Systems

ALTERNATE ENERGY

Adecon Energy Systems Inc.

2910 Brighton Road, Unit 1
OAKVILLE, Ontario
L6H 5S3
Tel: (416) 829-3944
Fax: (416) 829-3946
Export/Marketing Contact:
Mr. Alexander Printzios
President

Adecon was incorporated in 1982 to develop, manufacture and market cost effective and commercially viable electricity generating wind energy conversion systems.

A fully integrated wind energy company, Adecon offers a complete line of wind-fuelled power plants utilizing vertical axis wind turbines with ratings from 75 kW to 1200 kW.

Adecon's organization has developed a balanced team in the areas of engineering, research and development, new product development, production, marketing-sales and finance.

Adecon is currently pursuing commitments to develop its present product lines to their full potential, and at the same time is seeking new avenues to broaden their scope.

Products include:

- 1) SL-38 150 kW Vertical Axis Wind Turbine (VAWT)
- 2) A19-21 75 - 150 kW VAWT
- 3) SL-55 350 kW VAWT
- 4) SL-554 600 kW VAWT
- 5) SL-558 1200 kW VAWT

Industry Sector: Alternate Energy



Industry, Science and
Technology Canada

Industrie, Sciences et
Technologie Canada

Canada

Agro Wind Energy Systems Ltd.

P.O. Box 563
MANOTICK, Ontario
K0A 2N0
Tel: (613) 258-7282
Fax: (613) 292-0722
Export/Marketing Contact:
Mr. Michael Acton-Bond
President

Agro Wind Energy Systems has been involved in the design and manufacture of wind powered water distribution systems for almost twenty years. The company is currently manufacturing and marketing a line of patented design wind pumps to a predominately developing country market, supplying not only irrigation water but community potable water supplies through the use of reverse osmosis water filters, providing clean water to areas with unacceptable water quality and availability. As well as these products, Agro Wind is currently developing an alternate, wind powered, electrical energy system with global applications

Industry Sector: Alternate Energy

Argus Telecom International

809 Deslauriers
ST-LAURENT, Quebec
H4N 1X3
Tel: (514) 331-0840
Fax: (514) 331-0843
Export/Marketing Contact:
Mr. John McCabe

Argus has lengthy experience in designing and installing photovoltaic systems in LDCs. The company is primarily a telecommunications equipment supplier/installer. They manufacture module support structures. Components are assembled from imported parts.

Industry Sector: Alternate Energy

AstroPower Canada Ltd.

6 Antares Drive, Unit 12
NEPEAN, Ontario
K2E 8A9
Tel: (613) 723-7232
Fax: (613) 723-7629
Export/Marketing Contact:
Mr. J.L. McClung

AstroPower Canada Ltd. is Canada's only manufacturer of solar photovoltaic modules. These state-of-the-art products can be counted on to deliver years of trouble free electrical generation in all areas of the world. AstroPower offers complete power system design, installation and commissioning services. In addition, AstroPower specializes in providing the equipment materials & training necessary for companies to operate local photovoltaic module manufacturing plants, in both developed and developing countries.

The product line comprises photovoltaic power modules (including custom modules), complete solar and solar/diesel generating systems, solar water pumping equipment, and solar cell & module manufacturing equipment.

Industry Sector: Alternate Energy

Bestek Micro Devices & Systems Inc.

21-2485 Lancaster Road
OTTAWA, Ontario
K1B 5L1
Tel: (613) 523-5211
Fax: (613) 521-6628
Export/Marketing Contact:
Mr. Nae Ismail
President

The company manufactures solar powered lighting systems for energy efficient indoor-outdoor residential and commercial applications. It also specializes in water pumping systems.

Industry Sector: Alternate Energy

DRB Engineering Consultants Ltd.

101-3553 31st Street North West
CALGARY, Alberta
T2L 2K7
Tel: (403) 282-3115
Fax: (403) 282-1238
Export/Marketing Contact:
Mr. David R. Baker, P.Eng
President

Specializes in turnkey installations of data acquisition systems and data analysis software for performance testing/product evaluation of renewable energy systems. Engineering consulting, feasibility studies.

Industry Sector: Alternate Energy

Indal Technologies Inc.

3570 Hawkestone Road
MISSISSAUGA, Ontario
L5C 2V8
Tel: (416) 275-5300 ext. 109
Fax: (416) 273-7004
Export/Marketing Contact:
Mr. Vince Lacey
Director of Sales

Manufactures 50 kW and 500 kW vertical axis wind turbine generators.

Industry Sector: Alternate Energy

Industrial Equipment Co. Ltd.

7462 Progress Way
Tibury Industrial Park
DELTA, B.C.
V6G 1E1
Tel: (604) 946-1675
Fax: (604) 946-1315
Export/Marketing Contact:
Mr. Knut Gausvik
V.P. Products & Technical Service

Manufactures bearing assemblies, couplings, brake systems and lubrication systems for large vertical axis wind generators. Provides associated engineering, design and assembly service.

Industry Sector: Alternate Energy



Intelcan Technosystems

69 Auriga Dr.
NEPEAN, Ontario
K2E 7Z2
Tel: (613) 228-1150
Fax: (613) 228-1149
Export/Marketing Contact:
Mr. M.W.G. Whitall
Manager, Business Development

Intelcan Technosystems is a major Canadian manufacturer and installer of photovoltaic systems internationally. Intelcan manufactures photovoltaic chargers/regulators, designs and assembles complete photovoltaic power systems for telecommunications, water pumping and rural electrification. Intelcan is also a systems integrator for turnkey projects in civil aviation and telecommunications.
Industry Sector: Alternate Energy

International Irrigation Systems Ltd.

P.O. Box 1133
STE-CATHERINES, Ontario
L2R 7A3
Tel: (416) 688-4090
Fax: (416) 688-1780
Export/Marketing Contact:
Mr. R.L. Neff
President

The company manufactures water distribution systems for agricultural drip irrigation using wind-powered water pumping system. System reduces water consumption by 75-90% compared to sprinkler irrigation. Provides consulting, installation, project management, design, feasibility assessments and turnkey services.
Industry Sector: Alternate Energy

J.R. Salmon

1435 Colonsay Dr.
BURLINGTON, Ontario
L7P 2T8
Tel: (416) 335-6085
Fax: (416) 335-6065
Export/Marketing Contact:
Mr. Jim Salmon

Design, installation, maintenance, data collection and processing for meteorological networks. Numerical modelling of wind flow in real terrain. Wind resource analysis and estimation.
Industry Sector: Alternate Energy

Jack Otis

P.O. Box 1470
BLAIRMORE, Alberta
T0K 0E0
Tel: (403) 564-4255
Fax: N/A
Export/Marketing Contact:
Mr. Jack Otis
President

Manufactures Enertech Wind Systems (60 kW), parts and repair, wind farm developer aerial services. Specialists in wind turbines for high wind regimes.
Industry Sector: Alternate Energy

Lenbrook Industries Limited

633 Granite Court
PICKERING, Ontario
L1W 3K1
Tel: (416) 831-6333
Fax: (416) 831-6936
Export/Marketing Contact:
Mr. Graham Langford

Designs photovoltaic systems for all types of applications. Specializes in remote telecommunications systems.
Industry Sector: Alternate Energy

McPherson & Thom (Alberta) Ltd.

428 Moraine Road North East
CALGARY, Alberta
T2A 2P2
Tel: (403) 273-8676
Fax: (403) 273-7382
Export/Marketing Contact:
Mr. Doug Howland
Manager

Supplies and services windmills for water production.
Industry Sector: Alternate Energy

NorWester Energy Systems Ltd.

Box 7, Site 32, R.R. #12
CALGARY, Alberta
T3E 6W3
Tel: (403) 249-3337
Fax: (403) 249-7910
Export/Marketing Contact:
Mr. Jason Edworthy
President

Manufactures wind turbine towers, designs and installs wind and solar powered water pumping systems. Distributes and retails electric generation equipment using wind, solar and hydro energy, as well as accessories and appliances. Provides services for consulting, feasibility studies, economic analyses, project management, project development, installation, servicing and operations.
Industry Sector: Alternate Energy



Prairie Ditching Ltd.

418-26 Street S.
LETHBRIDGE, Alberta
T1J 3R2

Tel: (403) 327-8280

Fax:

Export/Marketing Contact:

Mr. Jack Dick
President

Manufacturers, assembles and services wind turbine powered compressors for operating compressed air water pumps and water aeration systems.

Industry Sector: Alternate Energy

Resource Ventures Inc.

P.O. Box 414
CHARLOTTETOWN, Prince Edward
Island
CIA 7K7

Tel: (902) 892-0361

Fax: (902) 892-3420

Export/Marketing Contact:

Mr. Malcom A. Lodge, P. Eng
Consulting Engineer

Provides laboratory testing and evaluation of wind energy conversion systems, project management, turnkey and consulting services to wind energy projects.

Industry Sector: Alternate Energy

S.D. Systems

R.R. #4
EGANVILLE, Ontario
K0J 1T0

Tel: (613) 754-2721

Fax: (613) 754-2773

Export/Marketing Contact:

Mr. Robert J. Devlin
Manager/Owner

Designs, assembles and installs wind, small hydro and photovoltaic units. Provides consulting services, weather systems and turnkey services.

Industry Sector: Alternate Energy

Sunset Solar Systems Ltd.

501 Highway #2 North, P.O. Box 1327
ASSINIBOLA, Saskatchewan
S0H 0B0

Tel: (306) 642-4240

Fax: (306) 642-4420

Export/Marketing Contact:

Mr. Doug Cameron
President

The company manufactures wind powered pond mills for aeration by circulation of water supplies and sewage lagoons. It also manufactures windmills to be used for pumping water from wells or ponds and distributes pond mills and windmills to dealers and consumers. Sunset also provides maintenance and repair services at Assiniboia.

Industry Sector: Alternate Energy

Tideland Signal Canada Ltd.

105-3650 Bonneville Place
BURNABY, B.C.
V3N 4T7

Tel: (604) 421-0988

Fax: (604) 421-0987

Export/Marketing Contact:

Mr. Allan Mitchener
Vice President

Manufactures and sells its own photovoltaic panels along with complete solar generating systems (i.e. batteries, battery boxes, voltage regulators, etc.)

Industry Sector: Alternate Energy

BALLASTS

Allanson Div. of Jannock Electrical Products Inc.

33 Cranfield Rd.
TORONTO, Ontario
M4B 3H2

Tel: (416) 755-1191

Fax: (416) 755-5896

Export/Marketing Contact:

Mr. Jon N. Baswick

Allanson manufactures ballasts and electrical transformers for the heating, lighting and electrical related industries in both Canada and the U.S.A.

Industry Sector: Ballasts

Alliance Ballasts

33 Cranfield Rd.
TORONTO, Ontario
M4B 3H2

Tel: (416) 755-5852

Fax: (416) 755-6718

Export/Marketing Contact:

Mr. Peter T. Hardy

Alliance (previously the Ballast Division of General Electric Canada) manufactures the complete line of Gold Label Ballasts for fluorescent lamps.

Industry Sector: Ballasts



Jannock Electrical Products Inc.

33 Cranfield Road
TORONTO, Ontario
M4B 3H2

Tel: (416) 755-1191
Fax: (416) 755-5896

Export/Marketing Contact:
Mr. Rod Wilde
Director of Sales

Jannock manufactures electrical transformers and ballasts for the lighting, sign, and oil heating industries, and power converters for the recreational vehicle industries.

Industry Sector: Ballasts

Sola Canada, A Unit of General Signal

377 Evans Ave.
TORONTO, Ontario
M8Z 1K8

Tel: (416) 252-6465
Fax: (416) 231-8916

Export/Marketing Contact:
Mr. Phil Verge

Sola Canada was established in Toronto, Ontario, in 1957 manufacturing fluorescent ballasts. Today, Sola Canada designs and manufactures, in Canada, a full range of Fluorescent and HID ballasts. This includes energy saving Fluorescent ballasts and Remote Encased Indoor and Outdoor HID ballasts. These products are sold direct to lighting fixture manufacturers and through electrical distributors across Canada and now into the U.S.A. for the replacement and retro fix markets.

Products include:

Fluorescent Ballasts

-Standard magnetic Fluorescent ballasts:

Types offered are rapid start, slimline line, high output and very high output

-Energy saving magnetic and electronic ballasts*

HID Ballasts

-High Pressure Sodium, Metal Halide and Mercury Vapour types from 35 to 1500 watts; core & coil and encased types for indoor and outdoor applications.

Industry Sector: Ballasts

BATTERIES

Battery Technologies Inc.

2480 Dunwin Drive
MISSISSAUGA, Ontario
L5L 1J9

Tel: (416) 820-1755
Fax: (416) 820-8190

Export/Marketing Contact:
Mr. Stephen Meldrum
Marketing Manager

Established in 1986, Battery Technologies Inc. (BTI) has developed the first high performance, low cost, environmentally safe Reusable Alkaline Manganese (RAM) battery technology. Initially RAM batteries* (energy saving and environmentally safe) will be available in AAA, AA, C, and D sizes. The RAM system combines the performance characteristics of this single use alkaline battery, including a three year shelf life, long operating time (1.5 volts) and good performance at high temperatures, with the rechargeability of the Nickel Cadmium (NiCad) battery. However, unlike NiCads, RAM batteries are less expensive, they do not suffer the adverse effects of "memory" or quick self discharge, nor do they pose the environmental problem that Cadmium does. For the purpose of bringing RAM batteries to the commercial market place, the company is establishing an international network of strategic licensees who will pay royalty fee to BTI for manufacturing and marketing rights. Currently, licenses are held by companies in Canada, Australia, Hungary with two in the U.S.A. including Rayovac.

Industry Sector: Batteries

Batronics Inc.

8301 Keele Street
MAPLE, Ontario
L6A 1T2

Tel: (416) 669-9326
Fax: (416) 669-6984

Export/Marketing Contact:
Mr. Miro Lacta
Export Manager

A leading Canadian manufacturer of automotive and industrial batteries, with manufacturing facilities located in Maple, Ontario, and Drummondville, Quebec. Batronics is dedicated to providing quality products and service with the most comprehensive line of Automotive and Industrial batteries in Canada. Batronics, with its brand names of Exide, Prestolite and Willard that is a recognized leader in Canadian battery manufacturing. Batronics is an all Canadian company with some 525 employees.

Products include:

- Automotive Batteries
 - Batteries for Diesel Locomotive
 - Continuous Standby Power Supply
 - Railway Switching & Signalling Power Source
 - Telephone Standby Stationary Units
- Industry Sector: Batteries

Duracell Canada Inc.

2333 North Sheridan Way
MISSISSAUGA, Ontario
L5K 1A7

Tel: (416) 823-4410
Fax: (416) 823-4150

Export/Marketing Contact:
Mr. Ian Milne-Smith
Director of Industrial Division

Duracell Canada Inc., a subsidiary of Duracell Inc. in Bethel, Connecticut, manufactures and distributes a full line of batteries to meet the demands of both the consumer and industrial sectors—ranging from toys, audio equipment and lights to hearing aids, wheelchair and computers. Duracell is a worldwide company known for its top quality and high performing products, and in all possible products



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Canada

significant steps to improve the products effects on the environment, have been taken. The head office and manufacturing facility for Duracell Canada Inc. is located in Mississauga, Ontario, with sales and distribution centres in St. John's, Montreal and Calgary. Products include alkaline, rechargeable and general purpose batteries, flashlights, lanterns, rechargeable battery charges, battery rechargers, battery testers and photographic batteries.

Industry Sector: Batteries

Electrofuel Manufacturing Co. Ltd.

9 Hanna Avenue
TORONTO, Ontario
M6K 1W8
Tel: (416) 535-1114
Fax: (416) 535-2361
Export/Marketing Contact:
Dr. S. Das Gupta
President

The Electrofuel Company has developed a lithium aluminum/iron sulphide, high density battery prototype for use in electric vehicles, food levelling, aerospace, and utilities.

Industry Sector: Batteries

Eveready Canada Inc.

2500 Royal Windsor Drive
MISSISSAUGA, Ontario
L5J 1K8
Tel: (416) 823-0266
Fax: 1-800-268-5876
Export/Marketing Contact:
Mr. Scott Ouellet

Eveready Canada Inc. manufactures zinc, carbon and manganese dioxide dry cell batteries of the key type (general usage). Eveready Canada Inc. manufactures a wide variety of dry cell batteries and flashlights of many different voltages for general and industrial applications. Compounds vary from carbon zinc, manganese dioxide, lithium, nickel cadmium, and mercuric oxide.

Industry Sector: Batteries/Flashlights

GNB Batteries (Canada) Inc.

9B-4500 Dixie Road
MISSISSAUGA, Ontario
L4W 1V7
Tel: (416) 624-1107
Fax: (416) 602-4088/624-1801
Export/Marketing Contact:
Mr. Brian Winkless
Export Manager

GNB has manufactured a complete line of lead acid batteries in Fort Erie, Ontario, since 1952. Today, GNB offers this, but also the new ABSOLYTE sealed range of batteries, together with related Battery Chargers, Installation supervision and Training Programmes. GNB's product lines and services include Lead Acid Batteries 10 ampere hour -8000, Battery Accessories, Battery Chargers, Installation supervision services, and Training Programmes.

Industry Sector: Batteries

Magnacharge Battery Corporation

1279 Derwent Way
NEW WESTMINSTER, B.C.
V3M 5V9
Tel: (604) 525-0391
Fax: (604) 525-0392
Export/Marketing Contact:
Mr. Les Granholm
Vice President

Established in 1963, Magnacharge Battery Corporation manufactures a complete line of storage batteries for automotive, marine, heavy commercial, diesel, recreational, standby and industrial motive power. Serving private industry and the public sector, Magnacharge focuses on manufacturing a high end product from raw materials that have been reclaimed in a recycling process. The company's highly trained staff are dedicated to providing the highest quality product and service available.

Industry Sector: Batteries

Moli Energy (1990) Ltd.

20000 Stewart Crescent
MAPLE RIDGE, B.C.
V2X 9E7
Tel: (604) 465-7911
Fax: (604) 465-4398
Export/Marketing Contact:
Mr. B. Sawicky
President

The company manufactures rechargeable lithium batteries.

Industry Sector: Batteries

Power Battery (Iberville) Ltd.

770 Thomas Ave
IBERVILLE, Quebec
J2X 5E7
Tel: (514) 346-3273
Fax: (514) 346-8003
Export/Marketing Contact:
Mr. Louis Hak
National Sales Mgr.

The company manufactures wet lead and sealed lead acid batteries, specializing in sealed maintenance-free stationary batteries.

Industry Sector: Batteries

Powerplex Technologies Inc.

257 Wildcat Road
DOWNSVIEW, Ontario
M3J 2S3
Tel: (416) 736-4994
Fax: (416) 736-0987
Export/Marketing Contact:
Mr. Dave Sedgewick
General Manager

Powerplex Technologies is a leading company in the development and manufacture of sodium sulphur batteries. The batteries have applications in electric vehicles, airport support vehicles, and underground service vehicles.

Industry Sector: Batteries



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Canada

Surrette Battery Company Limited

Station Road
SPRINGHILL, Nova Scotia
B0M 1X0
Tel: (902) 597-3767
Fax: (902) 597-8447
Export/Marketing Contact:
Mr. David Surrette
President

Surrette Battery Company Limited was established in 1959. The company has 20,000 square feet of manufacturing space and 15,000 square feet of warehouse space. The company manufactures a high quality line of lead acid batteries for the following applications: Marine, Railroad, Deep cycle (Electric floor scrubbers-sweepers-electric vehicles), Electric fork truck and Automotive-commercial. The company markets under the trade name "Surrette" and "Rolls". The "Rolls" name is used in the United States. The Surrette marine line is marketed across Canada and in the Caribbean. The rolls line is marketed on the east and west coast of the United States. The product is well known in the industry and is considered to be the leader. Overseas as well as in Canada the company has been very successful in promoting its railroad line. New and innovative products have been introduced to the market place which eliminates breakage and reduces maintenance cost.

Industry Sector: Batteries

Varta Industrial Batteries Ltd.

72 Devon Road, Unit 22
BRAMPTON, Ontario
L6T 5B4
Tel: (416) 790-0730
Fax: (416) 790-0744
Export/Marketing Contact:
Mr. Neil M. Hale
General Manager

The business dates from the 1930's, beginning in Winnipeg. It was purchased by Varta in 1956. Varta is one of the major Industrial Battery Manufacturers in Canada. Varta's manufacturing operations are conducted in Lachine, Quebec, with sales/service operations in Brampton, Ontario. Varta manufactures and distributes Industrial Batteries for traction and starter application - also Stationary Batteries for stand-by, emergency lighting, UPS, communication and storage energy applications. All Varta products are energy saving, environmental recyclable products.

Industry Sector: Batteries

BATTERY CHARGERS

Pocatec Ltd.

85, Road 132 West
LA POCATIÈRE, Quebec
G0R 1Z0
Tel: (418) 856-1454
Fax: (418) 856-5978
Export/Marketing Contact:
Mr. Carl Cassista
Chief Executive Officer

Established in 1974, Pocatec Ltd. is mainly involved in the design and manufacture of Battery Charge, Communication System (P.A.) Large A LCD display for Mass-Transit Application. Know-how in these very harsh environments could be used very well for ordinary industrial systems. Production facilities include an SMT line. Products include battery chargers (fixed and mass transit), P.A. Systems, LCD variable message panels, and traffic light controllers and accessories.

Industry Sector: Battery Chargers

Tenatronics Limited

776 Davis Dr. E. (P.O. Box 185)
NEWMARKET, Ontario
L3Y 4X1
Tel: (416) 895-4583
Fax: (416) 898-7947
Export/Marketing Contact:
Mr. L. Blanchard
Plant Manager

Tenatronics Ltd. was established nearly forty years ago, to manufacture Automobile Antennas, which is still the core of its business. Since that time, Tenatronics has added a line of Battery Chargers, from 2 amp to 30 amp, as well as Custom coils and Transformers up to 1KVA. More recently the company has added Custom Co-Axial Cable Assemblies for automotive, CATV.

Telecommunication, Computer, Home Entertainment and Security System applications.

Industry Sector: Battery Chargers

Vulcan Electric Co. Inc.

6510 Lawrence Ave East
SCARBOROUGH, Ontario
M1C 4A7
Tel: (416) 281-1550
Fax: (416) 281-3416
Export/Marketing Contact:
Mr. W.H. Hopper
Vice President

Originally established in 1898, the company manufactures electrical apparatus and battery chargers for a wide range of applications. The company has been located at its present site for more than 20 years. Facilities include sheet metal fabrication and coil winding. The battery chargers are used in industrial and commercial applications such as electric fork lift trucks, pallet trucks, etc, stand-by diesel generator starting batteries, floor cleaning equipment, automotive battery chargers, and chargers for batteries in other standby and motive power applications.

Industry Sector: Battery Chargers



Industry, Science and
Technology Canada

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Canada 100

BOILERS

ABB Combustion Systems Canada Sales & Marketing

1410 Blair Place, Suite 600
GLOUCESTER, Ontario
K1J 9B9
Tel: (613) 747-5222
Fax: (613) 747-5880
Export/Marketing Contact:
Mr. Peter Koelbleitner
Vice-President and General Manager

ABB Combustion Systems Canada is part of the ABB Canada family. The head office facilities are located in Ottawa and manufacturing is carried out in Sherbrooke, Quebec. Being a member of the world wide ABB organization, the company has access to a wide range of research and design data, as well as a varied background of experience to draw upon. ABB Combustion Systems Canada has been established for over sixty years and during this time has supplied to the public utility industry worldwide over 20,000 megawatts of steam generating capacity, ranging in size up to and including 660 MW per single unit, burning a wide range of fuels. Domestically the company has supplied well over half of the total megawatt capacity of thermal units purchased, many of which burn Canadian lignite or sub-bituminous coal, and range in size from 30 MW to 500 MW. Over one third of the company's utility sales is represented by the international market. ABB Combustion Systems Canada has commissioned units in many countries of the world, including Australia, New Zealand, Thailand, Spain, Argentina and Mexico. In addition to being a major supplier to the utility industry, the company has also furnished a large number of chemical recovery units and industrial boilers to industries ranging from pulp and paper, petrochemical, sugar and steel to aluminum, in more than eighteen countries around the world. These units burn a large variety of fuels and have been designed in accordance with individual requirements. In 1987, the company received the Canada Export Award.

Industry Sector: Boilers

Babcock & Wilcox Canada

581 Coronation Blvd.
CAMBRIDGE, Ontario
N1R 5V3
Tel: (519) 621-2130
Fax: (519) 622-2409
Export/Marketing Contact:
Mr. M.R. Cox
V.P. Marketing and Sales

B&W Canada's world-class capabilities have ensured substantial success overseas. Forty per cent of the company's annual sales have come from foreign markets over the past 30 years and that percentage will increase in coming years. This increased international marketing thrust is based on major projects completed in the fossil utility market in the Middle East, Venezuela, Thailand and Indonesia, and in Romania for the nuclear market. As part of an international consortium, B&W Canada signed a contract with the People's Republic of China to supply 4 350-megawatt generating units. Babcock and Wilcox operates as the international division of the company, and offers complete fossil fuel steam generating systems and services to utility and industrial customer erection, boiler repair, alteration and maintenance services and general and heavy mechanical construction. Also included is the supply of nuclear steam generators, components and services.

Industry Sector: Boilers

Foster Wheeler Limited

Glendale Ave.
NIAGARA-ON-THE-LAKE, Ontario
L0S 1J0
Tel: (416) 688-4434
Fax: (416) 688-4588
Export/Marketing Contact:
Mr. J.W. Orell
V.P. Sales and Marketing

The company manufactures boilers and associated power plant equipment for utility and industrial applications.
Industry Sector: Boilers

Miura Boiler Co., Ltd.

8 Copernicus boulevard
BRANTFORD, Ontario
N3P 1K5
Tel: (519) 758-8111
Fax: (519) 758-5294
Export/Marketing Contact:
Mr. Stephen Foster

Miura Boiler Co., Ltd. manufactures a complete line of industrial and commercial boilers, thermal equipment, water treatment equipment and ancillaries in Brantford, Ontario. Miura Boiler Co., Ltd. is a subsidiary of Miura Co., Ltd. of Japan.
Industry Sector: Boilers



Industry, Science and Technology Canada
Industrie, Sciences et Technologies Canada

Canada

Volcano Energy Systems Inc.

4300 Beaudry Ave.
ST-HYACINTHE, Quebec
J2S 8A5
Tel: (514) 774-5326
Fax: (514) 774-3887
Export/Marketing Contact:
Mr. Henri Reiher
General Manager

Volcano Energy Systems Inc. is engaged in the design, manufacturer, installation and service of energy and recovery systems for the industrial, commercial and institutional markets around the globe. The company specializes mainly on tubes, plate and structural steel including boilers, pressure vessels, heat exchangers, tanks, etc, for the petrochemical, pulp and paper, mining and steel industries, environmental works, incineration and various other industrial and commercial clients. The boilers include firetube and electric boilers, dual energy and tri-energy (gas, oil and electric into one). Volcano's plant personnel have extensive work experience and take great pride in innovative design and technical excellence with high specialized requirements and demand tolerances.
Industry Sector: Boilers

CAPACITORS

Aerovox Canada Limited

P.O. Box 250
AMHERST, Nova Scotia
B4H 3Z2
Tel: (902) 667-3886
Fax: (902) 667-3888
Export/Marketing Contact:
Mr. P. Ben Griffin, President

Aerovox Canada began at Hamilton, Ontario, in 1938 as a subsidiary of the Aerovox Company. In 1972, the company moved into a new facility at Amherst, Nova Scotia. This 40,000 square foot facility is equipped with state-of-the-art mechanical, electrical and chemical systems for the efficient production of AC oil capacitors for the Canadian and export markets. Many phases of updating

mechanization have occurred over the years making this one of the most efficient facilities of its kind in the world. Products include low voltage power factor correction capacitors and automatic power factor correction systems. Aerovox has grown at its Amherst facility to where sales have reached U.S. \$10,000,000. There are now no other manufacturer of AC capacitors in Canada. Aerovox products are sold through manufacturers' representatives, managed by company officials. Aerovox's share of the Canadian market is in the order of 90%. The Company enjoys excellent personnel, commercial, and banking relationships. Expansion into diversified product lines is planned and the Company is actively pursuing new ventures in North America and abroad.
Industry Sector: Capacitors

CATHODIC PROTECTION

Interprovincial Corrosion Control Company Limited

930 Sheldon Court
BURLINGTON, Ontario
L7L 5K6
Tel: (416) 634-7751
Fax: (416) 333-4313
Export/Marketing Contact:
Mr. William Russell, Marketing Manager

Federally incorporated in 1957, Interprovincial Corrosion Control Company Limited (I.C.C.C.) has been providing professional engineering services and the supply and manufacture of corrosion protection materials to most major users throughout Canada. I.C.C.C. is recognized by "N.A.C.E.", with accredited Corrosion Engineers on staff; specializing in the protection of buried or immersed steel structures by the proven technique "Cathodic Protection." I.C.C.C. manufactures a variety of product lines, i.e. galvanic and impressed anodes, C.P. related equipment, including the patented Rustrol Polarization Cell systems and surge suppressors, which safely electrically isolate steel structures in order to apply corrosion-free cathodic protection to permanently preserve pipelines, tanks, refineries, et al. Export sales of over one

million (60% to the U.S.A.). The technological marketing is well developed, however overseas representation is not. Annual growth rate of over 30% and is forecast to continue over the next five years. Major clients have included Ontario Hydro, Consolidated Edison, and major electrical power utilities.
Industry Sector: Cathodic Protection

CONNECTORS

AMP of Canada

20 Esna Park Drive
MARKHAM, Ontario
L3R 1E1
Tel: (416) 475-6222
Fax: (416) 474-5520
Export/Marketing Contact:
Mr. Randy Cole
Manager Utility Division

AMP of Canada manufactures connectors for the electric utility industry as well many other applications. AMP was awarded a "Qualitysupplier" status by Florida Power and Light and was the winner of the coveted deming award. Products include the "Ampact product line which is an energy saving connector system that can save electrical energy through low resistance losses between the conductors and the connectors. AMP also makes wedge type grounding connectors, and other electrical products.
Industry Sector: Connectors



Industry, Science and
Technology Canada

Industrie, Sciences et
Technologie Canada



Burndy Inc.

1530 Birchmount Road
SCARBOROUGH, Ontario
M1P 2G9
Tel: (416) 757-8761
Fax: (416) 751-8509
Export/Marketing Contact:
Mr. Bill Barnes

Established in Canada in 1949, Burndy is a major Canadian manufacturer of electrical and electronic connectors. Burndy has manufacturing plants in Markham and Scarborough, with sales offices throughout the country. Part of the FCI group of companies, a world leader in the connector industry, Burndy supplies connectors for Utility distribution and stations, construction and MRO markets, data systems, telecommunications, and military/aerospace. Utility products include: Overhead power distribution connectors, both mechanical and compression used for pole applications; Power distribution connectors for tube, cable and bus support applications; Underground power distribution, as well as, EHV station connectors; and The WEJTAP™ system for distribution and transmission connections round out our utility package. Construction and industrial products include mechanical and compression system grounding connectors, compression connectors for terminating and splicing power conductors; Small wire terminals, splices and nylon cable ties complete our wiring accessory products; Complete installation tooling - hand held; and Mechanical, hydraulic and pneumatic products are available. Burndy Electronics provides products to the Data systems, Business Equipment, Transportation, Industrial Controls, Consumer Electronics and Automotive sectors as well.

Industry Sector: Connectors

ITT Cannon

Four Cannon Court
WHITBY, Ontario
L1N 5V8
Tel: (416) 668-8881
Fax: (416) 668-4152
Export/Marketing Contact:
Mr. Don MacCool

ITT Cannon, a division of ITT Industries of Canada Limited, is a leader in the design and manufacture of electrical and electronic multi-pin interconnect devices for hostile environments encountered in aerospace, shipboard, nuclear, military and oil exploration applications. Comprehensive customer support is provided through an Engineering Model Shop capability, backed by a modern machine shop, moulding, and in-house plating operations. Major products include hermetically sealed connectors, high temperature firewall connectors, high density/high shock naval shipboard connectors, nuclear resistant connectors and high pressure/high temperature connectors.

Industry Sector: Connectors

La Prairie Electrical Products Ltd.

215 Anderson Avenue
MARKHAM, Ontario
L3P 4C7
Tel: (416) 294-6068
Fax: (416) 294-2079
Export/Marketing Contact:
Mr. D.L. Westbrook
President

The company manufactures and distributes power connectors.

Industry Sector: Connectors

Marr Electric Limited

2555 Hensall Street
MISSISSAUGA, Ontario
L5A 2T1
Tel: (416) 277-9481
Fax: (416) 277-9795
Export/Marketing Contact:
Mr. Wayne Molto
General Manager

Founded in the 1920s by Scottish electrician William P. Marr, Marr Electric Limited has manufactured insulated wire connectors in Canada for over 70 years. The company's product line includes both twist-on and set-screw devices covering wire sizes for AWG 22 to 6. From its manufacturing facility in Mississauga, Ontario, Marr supplies the North American electrician via the wholesale distribution channel with Marr and Marrette brand wire connectors of the highest quality and performance standards. Marr has recently expanded its product line - up to include electrician's fish tapes.

Industry Sector: Connectors

Patton & Cooke Ltd.

8183 - 130th St.
SURREY, B.C.
V3W 7X4
Tel: (604) 591-5374
Fax: (604) 591-3505
Export/Marketing Contact:
Mr. Greg Patton
President & CEO

Patton and Cooke Ltd. has been designing and manufacturing high voltage electrical equipment for the past 30 years. Customers include most of the major Canadian mines and utilities. Patton and Cooke manufactures the only Canadian made line of high voltage mine cable couplers as well as related mine safety devices.

Products include:

- Power Connectors for substations
- Utility transition splice modules and junction bars
- Mine cable couplers and related power distribution devices



Industry Sector: Connectors

Pyle-National of Canada Inc.

2560 South Sheridan Way
MISSISSAUGA, Ontario
L5J 2M9

Tel: (416) 822-3710

Fax: (416) 822-5447

Export/Marketing Contact:

Mr. Stephen B. Riddell
General Manager

Pyle-National manufactures electrical connectors. Products include Connectors, power and control, for industrial and Hazardous; Location applications; Connectors for rail and air transportation; Connectors for marine and hostile environments; Coupling and sealing grips; Industrial connector harness assemblies; industrial safety switches; and automotive connectors.

Industry Sector: Connectors

Thomas & Betts

700 Thomas Ave.
IBERVILLE, Quebec
J2X 2M9

Tel: (514) 878-9601

Fax: (514) 347-1976

Export/Marketing Contact:

Mr. Jim Taggart
Dir. of Marketing

Thomas & Betts Ltd. is a manufacturer of electrical and electronic components and systems for connecting, fastening, protecting and identify wire, components and conduits. Thomas & Betts has been selling its products to the Canadian electrical industry for over 60 years. Head office and manufacturing facility are located in Iberville, Quebec.

Products include:

- Sta-Kon Terminals
- Ty-Rap Cable Ties
- Color-Keyed Connectors
- Shrink-Kon Heat Shrink Insulators
- Star-Teck Connectors
- Bullet Connectors
- Xtraflex Conduit and Tubing
- E-Z-Code Wire Markers

Industry Sector: Connectors

WECO Electrical Connectors Inc.

16805 Hymus Blvd.
KIRKLAND, Quebec
H9H 3L4

Tel: (514) 694-9136

Fax: (514) 694-0956

Export/Marketing Contact:

Mr. John T. Meikle

WECO was founded in Hanau, West Germany in 1921. A patent for jacket clamps as a joining element for electrical installations was the beginning of WECO's success. With four plants located on three continents, WECO offers its customers world-wide over 10,000 products, all of which were developed in accordance to international approvals, i.e. UL, CSA, VDE. WECO Electrical Connectors Inc. (Canada) was established in Montreal in 1983. With a staff of 50 well-trained employees, WECO is able to provide products and services to North American customers through a network of representatives, distributors and factory support personnel.

Products include: Terminal blocks and electronic modules for the interconnection industry; terminal blocks for printed circuits for panel/chassis applications, both styles also available in depluggable format; also complete line of DIN Rail terminal blocks and electronic modules and custom designed interconnect solutions, ceramic terminal blocks; products meet UL, CSA, VDE as well as other international approvals.

Industry Sector: Connectors

Weidmuller Ltd.

10 Spy Court
MARKHAM, Ontario
L3R 5H6

Tel: (416) 475-1507

Fax: (416) 475-2708

Export/Marketing Contact:

Mr. Hans Kircher
V.P. Sales & Marketing

Established in Canada in 1975, Weidmuller Ltd. is an industry leader in the manufacturing of terminal blocks, interface modules and cable preparation tools. The company has also expanded into the specialty markets of automatic marking and laser cutting systems. Products are sold nationally through wholesale distribution and service the electrical utility pulp & paper, petro chemical, mining and equipment OEM industries. The company has expanded to include sales offices in Quebec City, Montreal, Calgary and Surrey, B.C. Other areas of the country are serviced by an outstanding network of agents. Weidmuller owns a building in Markham, Ontario which houses the head office and 35 of the company's 45 employees.

Industry Sector: Connectors

CONSTRUCTION

Arva Crane

120 Weston Street
LONDON, Ontario
N6C 1R4

Tel: (519) 661-0252

Fax: (519) 673-6329

Export/Marketing Contact:

Mr. Fred Smith
President

The company manufactures a full line of hydro tower lifters, mobile cranes, marine cranes, and man-basket attachments.

Industry Sector: Construction



Industry, Science and
Technology Canada

Industrie, Sciences et
Technologies Canada

Canada

BG Checo International Ltd.

7151 Jean Talon St. East

AUJOU, Quebec

H1M 3R4

Tel: (514) 493-4343

Fax: (514) 493-4350

Export/Marketing Contact:

Mr. Francis Mounie

Export Manager

BG Checo was formed by a merger in 1974 that combined the resources of Bedard, Girard and Checo, founded in 1927 and 1920 respectively. BG Checo today offers a recognized experience and expertise in three main fields of activities: erection and installation of equipment in industry such as mining and metallurgy, petrochemical, pulp and paper, etc. and utilities, including mechanical and electrical erection in power generating plants and substations; construction of electrical power transmission systems; manufacture of electrical and electronic products and systems, particularly switchgear. With its experience in Canada over the years, BG Checo has made important breakthroughs in international markets, notably in Latin America, Africa and Asia. IPI, BG Checo's engineering and international projects division, executes turnkey projects in the fields of electric power generation, transmission and distribution. Its capabilities in construction and engineering allow IPI to take charge of all stages of a project, from feasibility studies, design, construction to start-up. Owing to its excellent reputation of competence and reliability, IPI attracts government and bank support and participation whenever project financing is called for. BG Checo is also the executive industrial partner of Hydro-Quebec for the distribution, engineering, manufacturing and installation of the CAPACITIVE COUPLING SYSTEM (SCC). The SCC is an innovative, reliable and economic solution to the electrification of rural communities located near high voltage lines.

Industry Sector: Construction

NCA/Acrow-Richmond, Div. of Premetalco Inc.

110 Belfield Rd.

ETOBICOKE, Ontario

M9W 1G1

Tel: (416) 245-4720

Fax: (416) 242-2727

Export/Marketing Contact:

Mr. A. Belanger

Products Manager

The Richmond Screw Anchor Company Inc. was formed in 1911 in Brooklyn, New York and invented, and patented many of today's well known forming devices.

Acrow-Richmond Limited was incorporated in 1958.

With Richmond's long experience in forming accessories, Acrow-Richmond Limited became the foremost manufacturer and supplier of concrete form hardware Canadian for the electrical utility and construction industries.

Products include:

-Conduit Box Insert

-GROUTS

-Laminated Fibre Forms

-Polyserts (Plastic Fixing Blocks)

Industry Sector: Construction

Timberland Equipment Limited

459 Industrial Avenue

WOODSTOCK, Ontario

N4S 7Z2

Tel: (519) 537-6262

Fax: (519) 539-5853

Export/Marketing Contact:

Mr. James R. Leslie

V.P. Manufacturing & Marketing Manager

Since 1947, Timberland has earned an international reputation as a leading designer and manufacturer of Conductor Handling Equipment and Right of Way maintenance equipment for electric power transmission and distribution systems - both overhead and underground. Timberland can supply a complete package of equipment and accessories required to install new, or reconductor electrical lines.

Timberland's products have been shipped to many countries of the world, and operate under a wide variation of climate and terrain. Timberland backs its quality equipment with fully qualified service and training technicians plus parts availability.

Products include:

Pullers, Tensioners, Puller/Tensioners,

Reel Handling Equipment, Stringing

Blocks, conductor Cars, Pulling Rope,

Grips, Underground Rollers, Blocks,

Blowing Plugs and Pistons, Swivels,

Stringing Accessories, Tree Trimmers and

Bog.

Industry Sector: Construction

(miscellaneous)

Transec Inc.

2500, Lton-Trépanier

TROIS-RIVIERES, Quebec

G9A 5E1

Tel: (819) 372-0666

Fax: (819) 372-0077

Export/Marketing Contact:

M. Claude Gauthier

President

Transec Inc. started its activities in 1978 and since then has executed in Canada and some Third world countries in particular, the construction of over 2,000 km of transmission lines ranging from 120 kV to 735 kV as well as numerous energy transforming substations and the maintenance of electrical distribution lines ranging up to 120 kV. Transec Inc. acting as a general contractor offers a comprehensive range of services in the fields of generation, transmission and distribution of electricity for large projects, on its own or as a member of a consortium including other international companies with whom it maintains relations of common interest.

Industry Sector: Construction



Industry, Science and
Technology Canada

Industrie, Sciences et
Technologie Canada


Canada¹⁰¹

CONSULTANCY

Acres International Limited

480 University Avenue
TORONTO, Ontario
MSG 1V2

Tel: (416) 595-2000

Fax: (416) 595-2004

Export/Marketing Contact:

Mrs. I.W. Graham
Marketing Specialist

For over 65 years, Acres has been engaged in the planning, engineering, construction supervision and project management of powerhouses, switchyards, transmission lines, substations and distribution systems. The Company undertakes load forecasts, long range planning and power system studies, generation investment planning, financial analysis, risk assessment and power system reliability studies, and also designs and supervises the construction of transmission lines, substations and related facilities.

Industry Sector: Consultancy

B.C. Hydro International

970 Burrard Street
VANCOUVER, B.C.
V6Z 1Y3

Tel: (604) 663-2360

Fax: (604) 663-3727

Export/Marketing Contact:

Mr. Jim Gemmill
V.P. Consulting Services

B.C. Hydro International is a wholly owned subsidiary of British Columbia Hydro and Power Authority (B.C. Hydro), which operates Canada's third largest utility. The technical expertise of B.C. Hydro's environmental specialists, engineers, technicians and support staffs (total of 5,000) in all facets of electric system environmental and engineering consulting services, and operation is available to Canadian and international clients through B.C. Hydro International. Other B.C. Hydro wholly owned subsidiaries provide services to B.C. Hydro and Canadian and International clients: 1)

PowerTech Labs. Inc. provides comprehensive research and development, and testing facilities and expertise related to electric utility systems. 2) Westech Information Systems Inc. provides electric utility and related computer software systems and expertise. 3) Western Integrated Technologies Inc. provides electric utility and related computer hardware system applications and expertise. B.C. Hydro International has been active for a number of years providing engineering and electric utility consulting services and sophisticated electronic and fibre optic monitoring equipment to clients in many countries including Brazil, Venezuela, Canada, USA, New Zealand, China, India, Pakistan, Thailand, Egypt and Jordan.
Industry Sector: Consultancy

Berocan Inc.

6360, Jean Talon Est, Suite 202
MONTREAL, Quebec
H1S 1M8

Tel: (514) 256-6622

Fax: (514) 256-8233

Export/Marketing Contact:

M. François Tupula, Ing.
Vice-President

Berocan is a consulting engineering firm specializing in the construction and management of projects in Canada and the export markets. Head office is at Montreal, with offices also in Bruxelles, Kinshasa, and Kijiali. The company's main specialty is electric power transmission and distribution: low, medium or high voltage projects as well as substations. Berocan manages as well as designs full turnkey projects. Services include studies, planning, estimates, technology transfer, management consulting and construction management.

Industry Sector: Consultancy

Canadian International Power Services Inc.

2233 Argenta Road, Suite 400
MISSISSAUGA, Ontario
L5N 2X7

Tel: (416) 858-8020

Fax: (416) 858-3332

Export/Marketing Contact:

Mr. A.E. Houghton
President

CI Power is an engineering company specializing in electrical production, transmission and distribution. A wholly owned subsidiary of ARGIA Industries Ltd., CI Power provides the following services:

- 1) Engineering, Procurement, Construction Supervision and Commissioning for coal, oil and gas fired thermal plants, hydroelectric installations, combustion turbine-electric and cogeneration installations
- 2) Feasibility and Financial Studies,
- 3) System Stability Studies and
- 4) Operator Training for thermal power and hydroelectric installations world wide.

Industry Sector: Consultancy

Canatom Inc.

2020, rue University, 22e étage
Montreal, Quebec
H3A 2A5

Tel: (514) 288-1990

Fax: (514) 289-9300

Export/Marketing Contact:

Mr. T. Gellatly

Vice-President & Manager, Operations

Canatom Inc. works exclusively in the nuclear and related fields and serves clients in many parts of the world. It was formed in 1967 by three leading Canadian consulting companies whose individual nuclear experience extends back to the formative days of the industry. Like Canatom itself, these founding members are also internationally oriented, with working knowledge gained on large projects in some 40 countries. Canatom's own staff is backed by the diversified talents of its parent companies, also with



Industry, Science and
Technology Canada

Industrie, Sciences et
Technologie Canada



head offices located in Montreal, with a combined personnel exceeding 10,000 employees. Canatom specializes in the Balance of Nuclear Steam Plant (BNSP) and Balance of Plant (BOP) design, engineering, procurement, project management and construction management services, for nuclear power stations. Other services provided by Canatom include inspection, expediting, cost estimates, audits, feasibility studies, site investigations and evaluations, commissioning, operational and training assistance.

Industry Sector: Consultancy (Nuclear)

Crippen Consultants, Division of H.A. Simons

Suite 900, 401 West Georgia St.
VANCOUVER, B.C.
V6B 5E1
Tel: (604) 664-3000
Fax: (604) 664-4275
Export/Marketing Contact:
Mr. Jim Lawler
General Manager

Crippen Consultants specializes in small hydroelectric generation, water resource development, tunnels, terminal facilities, roads and bridges, and general industrial facilities.

Industry Sector: Consultancy

Cumming Cockburn

145 Sparks Ave.
WILLOWDALE, Ontario
M2H 2S5
Tel: (416) 497-2929
Fax: (416) 497-0298
Export/Marketing Contact:
Mr. G. Steeves
Vice President

Established in 1961 Cumming Cockburn currently has two hundred employees in seven Canadian offices. The firm specializes in small hydro engineering and has been responsible for the planning, design and construction management of plants varying in size from 50 kW off grid installations, to larger 20 mW grid

connected plants. Principal line of business: Consulting engineering services for small hydro electric engineering plants.
Industry Sector: Consultancy

Dessau Inc.

1200 Boulevard St. Martin
LAVAL, Quebec
H7S 2E4
Tel: (514) 384-5660
Fax: (514) 967-0758
Export/Marketing Contact:
Mr. Junaid Alam

Dessau, a prominent supplier of integrated engineering, procurement, and construction services throughout the world, is an entirely Canadian group, owned and managed by its employees. Founded in 1957 as Desjardins & Sauriel Consulting Engineers, the firm rapidly assumed a leading role in various fields of engineering. The firm has accumulated extensive experience in hydroelectric power generation and transmission by working on the huge hydropower projects of Quebec (Canada) as well as Africa and Asia. The real strength of Dessau is its more than 500 employees working together to provide multidisciplinary expertise in various parts of the world. Dessau is responsive to the quickening pace of social changes in the world and the rapid evolution of new technologies. Dessau's goal is to seek innovative solutions in partnership with their clients for a better world tomorrow. Dessau's multilingual and multicultural team of experts is ready to take on any challenging task in the engineering field, in any part of the world.

Industry Sector: Consultancy

Ferguson Engineering Services Inc.

50 Acadia Avenue
MARKHAM, Ontario
L3R 0B3
Tel: (416) 477-8791
Fax: (416) 477-6071
Export/Marketing Contact:
Mr. Greg Ferguson
President

The company provides consulting engineering services for high voltage electrical projects in Canada and around the world.

Industry Sector: Consultancy

Hydro-Quebec International

800, boul. de Maisonneuve est
MONTREAL, Quebec
H2L 4L8
Tel: (514) 289-6822
Fax: (514) 289-6118
Export/Marketing Contact:
M. Michel De Broux
Vice-President Business Development

Hydro-Quebec International offers a comprehensive range of services in the fields of generation, transmission and distribution of electricity. Its expertise includes system planning, environmental impact and follow-up studies, construction, operations, marketing and administration. Hydro-Quebec International can provide its expertise in many ways: technical assistance and training, construction contracts, project management mandates, turnkey contracts with or without a franchise formula as well as franchise as such.

Industry Sector: Consultancy

KWK Industries International

855 Abbott Street
MONTREAL, Quebec
H4M 1X2
Tel: (514) 747-0661
Fax: (514) 747-8981
Export/Marketing Contact:
Mr. Louis Katz

In existence for over 45 years and in the business of manufacturing non-toxic, biodegradable degreasers for the electrical industry, the company now has a very large range of cleaners for all industrial and commercial applications. KWK is an experienced company in "cleaning" and now offer a consulting service on specialty applications or problems. All products* are biodegradable, and non-toxic to the worker and are also water soluble.

Industry Sector: Consultancy (Cleaning)

Manitoba HVDC Research Centre

400-1619 Pembina Highway
WINNIPEG, Manitoba
R3T 2G5
Tel: (204) 284-8240
Fax: (204) 453-5074
Export/Marketing Contact:
Mr. Dennis Woodford
Executive Director

The Manitoba HVDC Research Centre is sponsored by Manitoba Hydro, the University of Manitoba, Teshmont Consultants and Federal Pioneer Ltd. The Centre offers specialist services to the electric power utility industry which include simulating, and studying complicated power systems with HVDC, SVC and their various protection and controls. Unique graphically driven software enables large complex models to be set up, tested and running within minutes or hours which would normally take days or weeks. Simulations can be undertaken in real time with both digital and analogue TNA's. A portable digital TNA capable of electromagnetic transient

modelling in real time can be taken to site for testing actual controls and protection.
Industry Sector: Consultancy

Manitoba Hydro

820 Taylor Avenue
WINNIPEG, Manitoba
R3C 2P4
Tel: (204) 474-3013
Fax: (204) 473-9044
Export/Marketing Contact:
Mr. Bernie St. Amant
Manager Export Services

Manitoba Hydro is the principal hydro-electric utility providing electrical energy to the province of Manitoba in Canada. Manitoba Hydro is also in the business providing power utility management consulting services to other utilities throughout the world. Using the expertise of its own employees, Manitoba Hydro offers to other utilities and organizations the benefits of its experience. In addition to wide hydro-electric and power system management expertise, Manitoba Hydro also offers the special experience and skills acquired from building, operating, and maintaining one of the largest high-voltage direct current transmission systems in the world.

Industry Sector: Consultancy

MMC Canada Enterprises Inc.

633 Weyburn Sq.
PICKERING, Ontario
L1V 3V3
Tel: (416) 605-1518
Fax: (416) 420-0767
Export/Marketing Contact:
Mr. Madanmohan Chawla

MMC Canada provides export marketing services to small & medium size Canadian companies in the following sectors:
a) electrical power generation- small, mini & micro hydro, solar, alternative non-conventional energy such as wind, biomass etc., and
b) electrical power transmission & distribution - switchgear, bus, duct, control, metering, relay panels, substations, switchyards, instrumentation, line monitoring, safety supplies.
Marketing services include analysis, investigation, planning, strategies, catalyst for joint venture licensing, tech-transfer, training, product presentation to customers for promotion or approval and trade-show and sourcing of complimentary products for (a) adding to present Manufacturing, (b) distribution, (c) representation, (d) or for cost reduction. MMC also undertakes assignments to select, recommend, appoint & maintain a marketing network of sub-representatives, agents, distributors, sub-suppliers, sub-contract mfrg., joint-venture partner, after sales service,... etc., tailored to suit clients. Product/packages/systems are offered, on behalf of principals or through associates, for projects/tenders/inquiries where financing is provided international financial institutions such as World Bank, ADB, AIDB, CrDB, USAID, EDC, CIDA...etc.
Industry Sector: Consultancy



Industry, Science and Technology Canada Industrie, Sciences et Technologie Canada


Canada

Monenco Consultants Limited

180 Attwell Drive, Suite 400
REXDALE, Ontario
M9W 6A9

Tel: (416) 798-0111

Fax: (416) 798-0130

Export/Marketing Contact:

Mr. B. Ring

Senior Vice-President, Power

In every aspect of the power industry, Monenco ranks as one of Canada's most authoritative engineering firms. Backed by a broad range of technology and management skills, it helps utilities, independent power producers, mining enterprises, and government institutions in Canada and around the world achieve their objectives. Monenco has been developing resources for electric power production, transmission and distribution since the beginning of the century. It engages in large and small developments in different climates and under varying physical conditions.

Industry Sector: Consultancy

Ontario Hydro - New Business Ventures Division

700 University Ave., Suite A14
TORONTO, Ontario
M5G 1X6

Tel: (416) 592-7072

Fax: (416) 592-8463

Export/Marketing Contact:

Ms. Helen Fisch

Manager - international Utility Consulting

Established in 1987, the New Business Ventures Division markets Ontario Hydro's technology and expertise to more than 50 countries around the world. Products and services comprise electric power system technology, international project consulting, isotope products, heat energy and training.

Industry Sector: Consultancy

Ottawa Precision Balance Engineering Ltd.

Box 13202

KANATA, Ontario

K2K 1X4

Tel: (613) 831-8419

Fax: (613) 836-1490

Export/Marketing Contact:

Mr. David Desjardins P.Eng.

President

Ottawa Precision Balance Engineering Ltd. has been in business since 1977. OPB has diversified into many fields generally related to dynamic balancing of rotating components and machinery noise analysis. The company has an excellent history of achievement in the aircraft defence and communication industries. The company's products are designed for dynamic balancing of rotating machines e.g. fans, pumps, motors, gears, etc.; dynamic balancing of aircraft rotating components, shafts, gears, propellers etc.; balancing of military repair and overhaul parts, engine components, antennae etc., and submarine drives; vibration analysis of all machinery, rotating components, building structures, and computer rooms; sound/noise analysis of all machines and buildings, and the manufacture of noise enclosures and other solutions to noise problems.

Industry Sector: Consultancy

Power Smart Inc.

Suite 702, 1045 Howe Street
VANCOUVER, B.C.

V6C 2B1

Tel: (604) 663-1693

Fax: (604) 663-1697

Export/Marketing Contact:

Mr. Art Geike

President

Power Smart Inc. is an organization comprising 14 Canadian utilities. The company was established to assist utilities in the development of demand side management programs.

Industry Sector: Consultancy

Powertech Labs Inc.

12388 - 88th Avenue

SURREY, B.C.

V3W 7R7

Tel: (604) 590-7500

Fax: (604) 590-5347

Export/Marketing Contact:

Ms. Blair Salter

Powertech Labs is a subsidiary company of B.C. Hydro, Canada's 3rd largest utility. Powertech Labs specializes in technical problem solving for gas and electric utilities and their suppliers across North America. The company has over 20 years of industry experience and employs 140 engineering and scientific experts in a \$50 million modern test laboratory near Vancouver, B.C. Major services include: Power System Studies, Power Equipment Performance Evaluation, Rotating Machinery Diagnostics, Materials Performance Assessment, Maintenance Engineering Services and Environmental Sciences (Hazardous Waste Destruction)*.

Industry Sector: Consultancy

Prottek Consultants Inc.

6400 av. Auteuil, Bureau 106

BROSSARD, Quebec

J4Z 3P5

Tel: (514) 443-6497

Fax: (514) 678-5398

Export/Marketing Contact:

Mr. Rao V. Annamraju Ing.

President

The company specializes in 1) Electrical design, construction management, and commissioning assistance, procurement of nuclear power stations, co-generation plants, 2) Engineering and site support Tokamak of Fusion program, 3) Specification, procurement, operation and maintenance of high current (up to 100 kA) power converters, power electronics equipment. 4) Design of hydroelectric power stations, aluminium and magnesium smelters.

Industry Sector: Consultancy



Industry, Science and Technology Canada / Industrie, Sciences et Technologies Canada

Canada

Rousseau Saive Warren Inc.

500, boul. René-Lévesque Ouest
Bureau 600
MONTREAL, Quebec
H2Z 1W7
Tel: (514) 878-2621
Fax: (514) 397-0085
Export/Marketing Contact:
M. F.G. Reid, Eng.
Manager, Marketing

The staff of RSW numbers approximately 270 employees, composed of 110 engineers and other professionals, 125 technicians and draftspersons, and about 35 support staff. The principal fields of specialization include hydroelectric power generating facilities, powerhouses, turbines alternators and gates; electric power switching, transmission and distribution systems; electric power system analysis, planning and automation, industrial energy supply; dams: soil, rockfill, concrete; hydraulic engineering, hydrology, water control structures and spillways, flood control structures; industrial plants, effluent treatment.

Industry Sector: Consultancy

Saskatchewan Power Corp.

2025 Victoria Ave
REGINA, Saskatchewan
S4P 0S1
Tel: (306) 566-2102
Fax: (306) 566-3054
Export/Marketing Contact:
Mr. Tony Harris
Vice President, Planning

Saskatchewan Power Corporation is the principal electrical utility providing electrical energy to the province of Saskatchewan. It has expertise in a wide range of areas of utility design and operations, including rural electrification.

Industry Sector: Consultancy

Shawinigan Lavalin Inc.

1100 René-Lévesque West
MONTREAL, Quebec
H3B 4P3
Tel: (514) 871-1020
Fax: (514) 876-9273
Export/Marketing Contact:
Mr. Peter Mayers
Vice-President- Hydroelectricity

At its founding in 1919, Shawinigan Lavalin Inc. carried out engineering and construction work for its parent, the Shawinigan Water and Power Company. Subsequently, its services were retained by other electric utility companies, both Canadian and international. As a result of a merge in 1982, it became a member of the Lavalin Group, an organization of consulting engineers of worldwide reputation with employees numbering 7,000. To date, 100,000 MW of hydraulic generation, 50,000 km of transmission lines and some 1000 transformer stations, in Canada and 60 other countries, attest to this remarkable achievement. Principle fields of specialization are hydroelectric power developments; energy and resources planning; hydroelectric plant inspection, rehabilitation and upgrading; power transmission and distribution systems (HV, RHV, UHV, HVDC); energy resource studies; industrial power systems; solar, wind and tidal power projects; water resources development; agricultural engineering; agronomy; soil science; rural development; agricultural economics; sociology.

Industry Sector: Consultancy

Shawinigan Integ Inc.

#1200 -1075 West Georgia Street
VANCOUVER, B.C.
V6E 3C9
Tel: (604) 669-2444
Fax: (604) 683-1672
Export/Marketing Contact:
Mr. Ronald R. Thomas
President

Shawinigan Integ Inc. is the thermal power engineering division of SNC Lavalin Inc., providing services for engineering, design and construction management to clients in Canada and other countries. These clients are mainly in the electrical utility sector. Many of the projects are large thermal and hydro electrical power plants with related transmission and distribution of electrical energy. Shawinigan Integ Inc. has engineered thermal energy plants including boiler systems, cogeneration power plants, district heating schemes and special combustion techniques. The company provides expertise and total capability for any scope of project from prefeasibility studies through to full engineering, design, procurement, construction, commissioning and management. Shawinigan Integ Inc. also has full access to the expertise of the SNC-Lavalin organization with more than 6,000 professionals, skilled technicians and support personnel in 60 specialized divisions.

Industry Sector: Consultancy



SNC-Lavalin Inc.

2 Place Felix-Martin, 39th Floor
MONTREAL, Quebec
H2Z 1Z3

Tel: (514) 866-1000

Fax: (514) 866-0795

Export/Marketing Contact:

M. Guy Saint-Pierre
President & C.E.O.

The company provides a full range of project management, engineering, procurement and construction services for hydroelectric, thermal and nuclear generating stations and for transmission and distribution networks.

Industry Sector: Consultancy

Tecsult Inc.

85, Rue Ste-catherine Ouest
MONTREAL, Quebec
H2X 3P4

Tel: (514) 287-8500

Fax: (514) 287-8643

Export/Marketing Contact:

M. Guy Fournier, P. Eng
President

Tecsult has been active since 1961. Rapidly, it has grown to one of the leading consulting firms in the country. The many projects on which it has worked can be found not only in Canada but also internationally with Tecsult International Limited. With the help of its subsidiaries, the company offers a complete range of services in the various fields of engineering, including hydroelectric development, thermal energy, nuclear energy, and transmission and distribution.

Industry Sector: Consultancy

Teshmont Consultants Inc.

7-1146 Waverley Street
WINNIPEG, Manitoba
R3T 0P4

Tel: (204) 284-8100

Fax: (204) 475-4601

Export/Marketing Contact:

Mr. Jack Scriven
President

Teshmont Consultants Inc. was established in 1966 by Canadian engineering consultants, who pooled their expertise to form a company specifically for the design and management of construction of large extra high voltage transmission systems, with particular emphasis on HVDC power transmission. With its staff of experienced professional engineers, Teshmont combines the engineering and technical disciplines necessary for the study, design and construction supervision of major EHV transmission systems anywhere in the world, and is supported by a highly capable project management group with comprehensive experience in scheduling, procurement, inspection and financial management of large utility projects. Services include feasibility studies, design procurement, commissioning and project management.

Industry Sector: Consultancy

Westech Information Systems Inc.

9th Floor, 1045 Howe St.
VANCOUVER, B.C.
V6Z 2B1

Tel: (604) 663-3550

Fax: (604) 663-3554

Export/Marketing Contact:

Mr. Len Voth
Marketing Mgr.

Westech Information Systems Inc. is a wholly owned subsidiary of B.C. Hydro, Canada's third largest utility. Westech Information Systems Inc. provides electric utility and related computer software systems and expertise.

Industry Sector: Consultancy

Western Integrated Technologies Inc.

Suite 704, 1045 Howe St.
VANCOUVER, B.C.
V6Z 2A9

Tel: (604) 663-2824

Fax: (604) 663-3652

Export/Marketing Contact:

Mr. Jack Allison
Marketing Manager

Western Integrated Technologies is a wholly owned subsidiary of B.C. Hydro, Canada's third largest utility. Western Integrated Technologies Inc. provides electric utility and related computer hardware system applications and expertise.

Industry Sector: Consultancy

CONTROL SYSTEMS

Alcatel Canada Inc., SEL Division

101 Valleybrook Drive
DON MILLS, Ontario
M3B 3M5

Tel: (416) 445-8600

Fax: (416) 441-3438

Export/Marketing Contact:

Mr. John R. Brohm
Manager, Sales

Alcatel Canada, SEL Division, is an international supplier of computerized signalling solutions for transit and mainline railways. Alcatel, SEL Division is a pioneer in creating driverless train control systems and has had major success in rapid transit systems such as Vancouver's SkyTrain, Detroit's People Mover, Scarborough's Rapid Transit and Disney World. Mainline railways such as CN, CP and C&NW use SEL products to move freight and people economically. Alcatel Canada Inc., is part of Alcatel N.V., a world wide leading supplier of communication transmission systems with yearly revenue exceeding \$17 Billion U.S. Products include (1) a driverless automatic train control system for rail based transit properties; (2) a driverless automatic train



control system for monorail transit properties; (3) Remote control and solid state interlocking control unit, and (4) Advanced Train Control Systems (ATCS)
Industry Sector: Control Systems

AME Microsystems Engineering Ltd.

71 Marycroft Ave. Unit 19
WOODBRIDGE, Ontario
L4L 5Y6
Tel: (416) 851-9181
Fax: (416) 851-1665
Export/Marketing Contact:
Mr. Ants Puust P.Eng.

AME Microsystems Engineering Ltd. is a partnership of professional engineers, providing design and manufacturing services to industrial clients requiring electronic subsystems and controls for inclusion in the machines or equipment they manufacture. The staff of AME consists of highly qualified senior engineers of diverse backgrounds, able to bring their extensive experience to bear on projects ranging from the design of freestanding products to the implementation of major systems. In addition to manufacturing the electronic subassemblies which are included in the equipment of its clients, AME has developed a number of products which it manufactures and sells under its own name. Of specific interest to the electrical industry is a line of microcontroller-based energy conservation timers/controllers* which have been installed at locations across Canada.

Industry Sector: Control Systems

Bailey Canada Inc.

860 Harrington Court
BURLINGTON, Ontario
L7N 3N4
Tel: (416) 639-8840
Fax: (416) 639-8639
Export/Marketing Contact:
Mr. Richard West
Utility Sales

Originally incorporated in 1921, Bailey Canada designs, manufactures, and implements distributed control systems to a wide variety of industry sectors including utilities (power generation and distribution), general industries, pulp and paper, chemical and petroleum, and mining and metals. Services offered include systems design, integration, and development; engineering; manufacturing and checkout; installation supervision; commissioning; operator training; and continuing field service.

Products include:

- INFI 90 and NETWORK 90 Distributed Control Systems*
 - Analog and Digital Control Systems
 - Burner Management Systems
 - Turbine Control Systems
 - Combined Cycle Control
 - Cogeneration Control
 - Applications Software
 - Field Instruments and Sensors
 - Smart Instrumentation
 - Remote Communication
- Industry Sector: Control Systems**

Control Microsystems Inc.

2049 Cohen
ST. LAURENT, Quebec
H4R 9Z7
Tel: (514) 745-1270
Fax: (514) 745-1610
Export/Marketing Contact:
Mr. Allan Erion

Control Microsystems designs and manufactures quality remote programmable units (RPU/RTU's) and industrial computers especially applicable to water control and environmental monitoring in electrical utilities. TeleSAFE RPU's integrate all the elements of a top of the line RPU. The TeleSAFE VS/x* series provides cost effective solutions for small applications such as level monitoring and single/dual point pressure grids; whereas, TeleSAFE 6000* is perfect for larger water, oil & gas, environmental and industrial applications. All offer: full programmability in BASIC and C; industry standard protocols; telephone, radio, dedicated line and RS 232/485 communications; and -40 to +60 °c operating range.
Industry Sector: Control Systems

Elmec Engineering Ltd.

1410 Crown Street
NORTH VANCOUVER, B.C.
V7J 1G5
Tel: (604) 985-4721
Fax: (604) 985-3687
Export/Marketing Contact:
Mr. David Wallace
General Manager

Created in 1973, Elmec Engineering is a custom manufacturing company specializing in electrical, electronic and mechanical systems and controls, and provides research, design and consulting services industry-wide. The consummate "problem-solver" with a penchant for quality, flexibility and reliability, Elmec Engineering has earned a reputation for performance. Today, systems engineered and built by Elmec Engineering can be found all over the world. Whether it's



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instrumentation packages for air conveyors, bulk material handling design for shiploading facilities, relay panels for pulpmills or fibre optic monitoring systems for hydro-electric generators - no challenge is too complex, no problem is too unique - Elmec Engineering delivers. Products include electrical relay panels, battery chargers, motor controls, and monitoring systems.

Industry Sector: Control Systems

Lab-Volt (Quebec) Ltd.

2120 rue Lavoisier
STE-FOY, Quebec
G1N 4B1
Tel: (418) 681-6346
Fax: (418) 687-4014
Export/Marketing Contact:
M. G. Goupil
President

In its plants at Quebec City and Belleville, Ont., Lab-Volt manufactures educational electronic equipment and electric power and process control systems.

Industry Sector: Control Systems

Omega Controls (1990) Ltd.

6240 202 Street
LANGLEY, B.C.
V3A 4P7
Tel: (604) 534-7756
Fax: (604) 534-7763
Export/Marketing Contact:
Mr. Werner Niemeyer
President

Established in 1982, Omega Controls designs and manufactures electric-electronic control systems for the saw mill industry.

Industry Sector: Control Systems

PAC Process Automation Controls Ltd.

222B-4664 Lougheed Highway
BURNABY, B.C.
V3C 5T5
Tel: (604) 261-6841
Fax: (604) 291-2269
Export/Marketing Contact:
Mr. J. Cerny
President

PAC - Process Automation Controls Ltd. - was established in 1978. PAC offers engineering expertise, competence and system design and application experience in the following field: a) supervisory control and data acquisition systems for power utilities, oil and gas pipelines, water and sewer pipelines, security systems, and communication utilities such as microwave radio links, etc, b) process control systems for pump and compressor stations, c) control systems for large engines such as gas turbines and piston engines as well as centrifugal and reciprocating compressors, and radio and fibre optics communication systems. PAC services consist of: a) standard consulting engineering services such as feasibility studies; engineering design; preparation of technical specifications; preparation of commercial documents; contract negotiation and administration; factor and field acceptance tests; construction supervision, etc, b) supply of complete, engineer/construct systems, and c) supply of equipment to specification. PAC also manufactures a PAC designed industrial control system, the "PACE" - a field proven, modular hardware solution to many date/process control applications. Currently, PAC delivers \$ 2,000,000 to \$ 3,000,000 of "PACE" based systems a year to customers in the utilities, oil and gas industry and government.

Industry Sector: Control Systems

SACO Controls Inc.

9700 Trans Canada
MONTREAL, Quebec
H4S 1V9
Tel: (514) 745-0310
Fax: (514) 745-0315
Export/Marketing Contact:
Mr. Pat Argento
Director of Sales & Marketing

SACO Controls Inc. specializes in the design and manufacture of mosaic mimic panels as well as related electronic and control equipment. The versatility of SACO's mosaic mimic system is quite evident in terms of global picture and display capabilities relating to automation and system control applications. Visual grouping of information and control data being symbolically represented on the mosaic surfaces makes the control room more efficient and easily manageable. Process indicators e.g. Digital readouts, meters and indicating lighting etc. are all strategically placed to display the functional and operational status of the various systems and processes while input devices e.g. pushbuttons, selector switches, control dials etc. enable expedient control and manoeuvre by the operator. SACO's unique concept of modular unit construction system makes the mapboards readily flexible as far as modifications and future expansions are concerned with least amount of effort and costs. SACO's strength in specialized electronic instrumentations complementing the mosaic system is based on a wide range of products and accessories which include: Computer Interface, Solid state Annunciators, LED Digital and/or Analog meters, 1", 2", 3" & 5" High Intensity LED Digital readouts (c/w BCD, Analog or Clock inputs), Status Indicators (Incandescent or LED). SACO's mosaic and control room product lines have applications in a wide range of control systems, including industrial process control, dispatching power networks, security control systems for nuclear power plants, and power system control centers for the electrical utilities.

Industry Sector: Control Systems



Snemo Ltd.

3605 Isabelle Street
BROSSARD, Quebec
J4Y 2R2
Tel: (514) 444-3001
Fax: (514) 571-5125
Export/Marketing Contact:
Mr. Daniel Carreau
Director Marketing and Sales

Snemo Ltd. manufactures electronic protection relays, circuit breaker monitoring and control system and supervisor systems.
Industry Sector: Control Systems

Western System Control Ltd.

1038 Venture Way, Box #829
GIBSONS, B.C.
VON IV0
Tel: (604) 886-3705
Fax: (604) 886-3561
Export/Marketing Contact:
Mr. Denis G. Hostland

Incorporated in 1973, Western System Controls Ltd. provides industrial instrumentation contracting services to a wide variety of large corporate manufacturers. Its client-base includes pulp & paper mills, mines, breweries, water/sewer treatment plants & food processing plants, light fabrication & control panel manufacturing provide their 17,000 ft² facility. Winner of profit magazines 1991 "50 fastest growing companies in Canada", list at #36, W.S.C. is ready to service industrial Clients process control needs all across Canada.
Industry Sector: Control Systems

DRIVE SYSTEMS

Relcon Inc.

80 Walker Drive
BRAMPTON, Ontario
L6T 4H6
Tel: (416) 458-1100
Fax: (416) 458-1200
Export/Marketing Contact:
Mr. David Duff
Director, Drives Marketing

Relcon Inc., is a leader in Canada in the custom engineering, manufacture and marketing motor control equipment include adjustable frequency drives, DC drives, slip energy recovery drive systems, and eddy current couplings.
Industry Sector: Drive Systems

Saf Drive Systems Inc.

859 Courtland Ave. East
KITCHENER, Ontario
N2G 4H5
Tel: (519) 743-5491
Fax: (519) 743-1628
Export/Marketing Contact:
Mr. Juan Roman
General Manager

The company manufactures AC an variable speed drives, solid state reduced voltage starters for AC motors, crane/hoist controllers, arc furnace, heater, fan and pump controllers, mining vehicle motor controls, microprocess drive controllers, and variable frequency drives.
Industry Sector: Drive Systems

Softac Systems Ltd.

3046 Westwood St.
PORT COQUITLAM, B.C.
V3C 3L7
Tel: (604) 464-8505
Fax: (604) 464-2242
Export/Marketing Contact:
Mr. Wayne Follett
Manager-Drives

Established in 1971, Softac designs and manufactures variable speed drives, reduced voltage AC motor starters, rectifiers, for cranes, conveyors, ball mills for sawmills, mines, marine, and pulp mills. In addition, Softac designs and assembles PLC systems, controls & consoles. These systems may apply to the above noted industries and to automated computer optimizing systems for sawmills.
Industry Sector: Drive Systems

ELECTRIC MOTORS

Emerson Electric Canada Limited

9999 Markham Road, P.O. Box 150
MARKHAM, Ontario
L3P 3J6
Tel: (416) 475-4647
Fax: (416) 475-4679
Export/Marketing Contact:
Mr. Mike Snow
Manager of Corporate Programs

Emerson Electric Canada is a diversified manufacturer of electrical and electronic products and systems through its 17 operating divisions and subsidiaries. Products are sold primarily through independent distributors and original equipment manufacturers in a variety of industries. Emerson in Canada employs over 2,000 people with 12 manufacturing locations. Emerson's extensive product line includes: electric heating elements, electrical products[®] for hazardous environments, fractional/integral/industrial horsepower motors, air conditioning/refrigeration flow controls and compressors, solenoid valves, temperature/pressure/flow sensors, gas



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valves, process flow control valves, appliance/furnace controls and thermostats, mechanical power transmission, hand held power tools, and garbage disposal appliances.
Industry Sector: Electric Motors

Fasco Motors Ltd.

505 Conestoga Blvd.
CAMBRIDGE, Ontario
N1R 5X9

Tel: (519) 623-6130
Fax: (519) 623-6105

Export/Marketing Contact:
Mr. Henry Mason
Marketing Manager

Fasco Motors Ltd. manufactures subfractional AC electric motors ($\frac{1}{2}$ HP and smaller). Motor lines include 2-pole and 4-pole shaded pole induction at 3.3" diameter, and skeleton (or c-frame) open type motors.

Industry Sector: Electric Motors

Franklin Electric of Canada Limited

Highway 81 North
STRATHROY, Ontario
N7G 3J3

Tel: (519) 245-3220
Fax: (519) 245-3224

Export/Marketing Contact:
Mr. G.D. Sharpe
Sales Manager

The company manufactures fractional horsepower motors; subfractional horsepower motors; control boxes for submersible motors, submersible pump motors, sump pump motors, jet pump motors, permanent split capacitor motors and general purpose motors.

Industry Sector: Electric Motors

Leroy-Somer Canada Ltee/Ltd

1955 Cote de Liesse - suite 210
MONTREAL, Quebec
H4N 3A8

Tel: (514) 332-1880
Fax: (514) 332-5912

Export/Marketing Contact:
M. Lucien Nadeau
V.P. Sales & Marketing

Established in Canada since 1964 and now part of the Emerson Group, Leroy-Somer is a world leader in the manufacturing of electrical and mechanical rotating machines. The company offers a complete range of drive systems for material handling, air handling, liquid handling, material processing or food processing. On request, the company will build to customer's specification and/or adapt gearmotors or motors to suit the customer's requirements. The company's products are designed for light and heavy duty industrial uses as well as marine duty. Products include:

- Premium Efficiency AC motors for 1 to 500 HP*
- High efficiency AC motors from $\frac{1}{4}$ to 5000 HP*
- DC motors from 15 watts to 1000 KW
- Alternators AC from 1 KW to 15 MW*
- Helical gearmotors*
- Helical gear speed reducers*
- Variable speed control AC or DC or mechanical

Industry Sector: Electric Motors

Lincoln Electric Co. Canada Ltd.

179 Wicksteed Avenue
TORONTO, Ontario
M4G 2B9

Tel: (416) 421-2600
Fax: (416) 421-3065

Export/Marketing Contact:
Mr. John Stopki
National Sales Manager

The company manufactures welding equipment, consumables, and auxiliary power generators.

Industry Sector: Electric Motors

Novatronics Inc.

677 Erie Street, P.O. Box 610
STRATFORD, Ontario
N5A 6V6

Tel: (519) 271-3880
Fax: (519) 271-9781

Export/Marketing Contact:
Ms. Laraine Murray
Director of Sales

The company designs and manufactures precise electro-mechanical components for application requiring high reliability in the commercial and military aircraft industry. Products manufactured are DC subfractional motors (1 to 1/10 HP); servo motors, stepping motors, synchros, DC brushless motors. The company also manufactures digital indicators, mag wheels, and surface control position transmitters.

Industry Sector: Electric Motors



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Canada

Ram Air Manufacturing Ltd.

501 Newbold St.
LONDON, Ontario
N6E 1K4
Tel: (519) 681-1012
Fax: (519) 681-7341
Export/Marketing Contact:
Mr. T.H. Dohmer
General Manager

The company manufactures small DC electric motors (12 to 24 volts) for the automotive industry.

Industry Sector: Electric Motors

Rellance Electric Limited

678 Erie St.
STRATFORD, Ontario
NSA 6W1
Tel: (519) 271-3630
Fax: (519) 271-8213
Export/Marketing Contact:
Mr. E.C. Dredge
Sales Manager

The company manufactures large AC electric motors 200 to 4000 HP, and DC drive systems to 1000 HP.

Industry Sector: Electric Motors

Westinghouse Motor Company Canada Ltd.

1632 Burlington Street (P.O. Box 2510)
HAMILTON, Ontario
L8N 3K2
Tel: (416) 528-8811
Fax: (416) 544-1781
Export/Marketing Contact:
Mr. T.C. Johnson

Westinghouse Motor Company Canada is a fully integrated manufacturer of AC induction motors 1HP to 30,000HP as well as being able to provide large DC and Synchronous Motors for heavy industry. Sales offices are located across Canada with the engineering and Marketing sections located at the large factory in Hamilton.

Products include:

-AC motors, 1HP to 30,000HP to NEMA design standards with high efficiency designs as standard

-DC and synchronous motors for heavy industry

-TM brakes for use on overhead cranes

Industry Sector: Electric Motors

ELECTRICAL POWER SUPPLY EQUIPMENT

Alpha Technologies Ltd.

5700 Sidley St.
BURNABY, B.C.
V5J 5E5
Tel: (604) 430-1476
Fax: (604) 430-8908
Export/Marketing Contact:
Mr. David Graves
Director of Marketing

Alpha Technologies Ltd. manufactures AC power products for the CATV, LAN, computer and telecommunications industries. DC products are supplied through its affiliate Argus Technologies Ltd. Manufacturing over 50 power conversion products in Burnaby, B.C., Alpha ships worldwide providing reliable power for a wide range of applications. CATV power supplies can be configured

in either 50 or 60 Hz variations for many input and output voltages.

Uninterruptible Power Supplies and Standby Power Supplies from 200 to 10,000 VA are available in many configurations. Alpha Technologies is a market and technology leader in the production of power conversion equipment. Products include: AC Uninterruptible Power Supplies (UPS), AC Standby Power, DC Uninterruptible Power Sources, Industrial and Commercial Battery Charger, 48 & 60V Transformer/Regulators, Line Conditioners, Surge Protection for Broadband Cable, Battery Eliminators, and Power Panels.

Industry Sector: Electrical Power Supply Equipment

Argus Technologies Ltd.

7033 Antrim Ave
BURNABY, B.C.
V5J 4M5
Tel: (604) 436-5900
Fax: (604) 436-1233
Export/Marketing Contact:
Mr. Dennis Molnar
Vice-President

Argus Technologies Ltd. manufactures DC Power System for telecommunications applications. Customers include major telephone companies in Canada and the U.S.A. as well as overseas. Argus's DC power systems convert the main AC electricity to DC which is used to power the telephone company's switching system and maintain the system's backup batteries. The company's product line includes rectifiers that convert AC power to DC power. These are supplied in 24 or 48 volts with current from 7.5 to 200 Amps. The rectifiers and other Argus power system components such as supervising panels, breaker panels, fuse panels, CEMF cells, termination panels, DC to DC converters and load disconnect panels are all integrated by Argus into a complete DC power system. The power system is custom designed and prewired to meet the users' requirements and can provide up to 1500 Amps of output current. Argus Technologies is dedicated to providing the most reliable power systems



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possible to telecommunications applications. This has enabled Argus to become one of the fastest growing DC power systems companies in North America.

Industry Sector: Electrical Power Supply Equipment

C-Can Power Systems

38 Commerce Crescent
ACTON, Ontario
L7J 2M3

Tel: (519) 853-4000

Fax: (519) 853-3166

Export/Marketing Contact:

Mr. Dave Pitt

C-Can Power Systems designs and builds DC Power products for utilities, railroad, industrial and telecommunication applications. Products include rectifiers, batteries, DC/DC converters, distribution, and accessories. Primarily in the telecommunications industry, C-Can has recently introduced the world's smallest high power communications products with state of the art features. Custom products to client specification and to international standards are available. Located in Acton, Ontario, the 30,000 sq.ft. plant has full design and production facilities.

Industry Sector: Electrical Power Supply Equipment

C&D Charter Power Systems Canada Inc.

9 Bradwick Drive
CONCORD, Ontario
L4K 2T4

Tel: (416) 669-4400

Fax: (416) 738-0564

Export/Marketing Contact:

Mr. Norman N. Siomra

V.P. & General Manager

C&D is a quality manufacturer of lift truck batteries and chargers for use in warehouse, manufacturing, airline ground support vehicles, pollution free & off-peak charging to more efficiently utilize electrical energy are standard features. Telecommunications, Uninterruptible

Power Systems (UPS) & Switchgear & control applications demand reliability above all else. C&D Charter Power Systems Canada Inc. manufactures both standby batteries and power electronics equipment to provide integrated power systems for industrial use.

Products include:

- Motive Power Batteries
- Motive Power Chargers*
- Standby Batteries
- Standby Chargers
- Valve Regulated (Sealed) Batteries

Industry Sector: Electrical Power Supply Equipment

CTS of Canada Limited

80 Thomas Street
STREETSVILLE, Ontario
L5M 1Y9

Tel: (416) 826-1141

Fax: (416) 858-9058

Export/Marketing Contact:

Mr. Bob Holmes

CTS manufactures standard or custom designed static power conversion equipment for a wide variety of demanding applications ranging from warships to cyclotrons and from nuclear generating stations to telecommunications systems. Products include uninterruptible power systems or DC - AC inverters, 50 VA to 50 KVA single phase; 3 KVA to 150 KVA three phase battery chargers; DC - DC converters; frequency converters; helicopter starters; and degaussing rectifiers.

Industry Sector: Electrical Power Supply Equipment

Electrotek Ltd.

1016- 34th Avenue S.E.
CALGARY, Alberta
T2G 1V4

Tel: (403) 287-2200

Fax: (403) 287-3808

Export/Marketing Contact:

Mrs. Barbara Franson

Quality Assurance Manager

Founded in 1971, Electrotek Ltd. has flourished into a multi-faceted operation. In step with today's technology, the company designs, and manufactures *power factor correction equipment and performs power factor and harmonics studies for in depth evaluation. Electrotek also designs and manufactures process industrial controls. In addition to servicing industry with electrical contacting and maintenance, the company also provides data telecommunication networking, including design, integration and installations.

Industry Sector: Electrical Power Supply Equipment

Exide Electronics Canada Inc.

380 Carlingview Drive
ETOBICOKE, Ontario
M9W 5X9

Tel: (416) 798-0112

Fax: (416) 798-0062

Export/Marketing Contact:

Mr. John March

Director Sales & Marketing

Exide Electronics designs, manufactures, markets and services a broad line of power performance and protection products which protect computer and other sensitive electronic systems against electrical power loss and distortions. The Company's products are used in diverse applications, including large computer facilities, mainframe and minicomputer systems, communications systems, medical applications and distributed computing environments.

Industry Sector: Electrical Power Supply Equipment



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Canada

Franklin Playford Inc.

620 McCaffrey
ST. LAURENT, Quebec
H4T 1N1
Tel: (514) 345-1950
Fax: (514) 341-1877
Export/Marketing Contact:
Mr. Eddy J. Hannan
Manager

Franklin Playford Inc. is a full line electrical distributor with manufacturing capabilities for custom electric heating units for heavy industry, and electrical panels, specializing in mining, steel, and pulp & paper industries. Principal products are uninterruptible power supplies, inverters and capacitors.
Industry Sector: Electrical Power Supply Equipment

Iconopower Limited

5489 Canotek Road
GLOUCESTER, Ontario
K1J 9G7
Tel: (613) 744-3670
Fax: (613) 744-8452
Export/Marketing Contact:
Mr. Peter Grace
Export Manager

Established in 1975, Iconopower designs and manufactures electrical rectifier equipment, power semiconductor assemblies and regulated power supplies. Iconopower specializes in heat-sink (cooling) techniques for power semiconductors. Customers include rapid transit authorities, railroads, electric utilities, telephone companies, the automobile industries, mines, the pulp and paper industry and power electronics industry which itself makes variable speed motor drives, induction heating equipment, electrolytic rectifiers, resistance heating equipment and electric welding equipment. Products include:

- A.C. Electric Power Controllers*
- Solid-state A.C. Switches*
- Assemblies incorporating power semiconductors for variable speed motor drives and induction heating*

-High power rectifiers for industrial applications for rapid transit. These may be controlled or unregulated.
-Regulated power supplies, 50 watts to 2 kilowatts, employing switched-mode or series resonant technology
-Firing circuits for thyristors and interface circuits for industrial electronics to facilitate operation of power equipment from logic level signals.
Industry Sector: Electrical Power Supply Equipment

Inverpower Controls Ltd.

835 Harrington Court
BURLINGTON, Ontario
L7N 3P3
Tel: (416) 639-4692
Fax: (416) 639-0961
Export/Marketing Contact:
Mr. A.S. Popp
Marketing Manager

Inverpower's primary business is the design, development, consultation, servicing and manufacture of power electronic systems and solid-state power equipment. A major objective is the development of international leadership in the provision of power electronic systems for a variety of applications, such as special-purpose supplies, variable-speed AC drives, induction heating and military power supplies. In support of this goal, the company has continued to invest a large portion of its income to research and development. This R & D work extends to the use of microprocessors (for digital control system optimization, status indication, remote diagnostics, and system mimic), programmable logic arrays and custom LSI for high-reliability logic and control and design capability to employ all power switches; i.e. SCRs, ASCRs, GTOs, IGBTs and power transistors. As a result of this research activity, Inverpower is able to select optimum systems for specified application requirements. Inverpower has supplied several hundred power electronic inverters in the range of 15 to 5000 kVA in more than 20 countries around the globe, in concert with the cultivation of exports representing approximately 70 percent of sales. Its clients are drawn from a wide range of firms in the industrial,

municipal, military, nuclear and national laboratory applications. Inverpower occupies 60,000 square feet and employs a staff of 100 highly trained personnel, including 15 engineers, 16 technologists, and senior executives with considerable experience and international reputation in the general area of solid-state power supplies and solid-state power control.
Industry Sector: Electrical Power Supply Equipment

NIFE Corporation

125 Nantucket Blvd.
SCARBOROUGH, Ontario
M1P 2N8
Tel: (416) 757-5151
Fax: (416) 752-4514
Export/Marketing Contact:
Mr. Gary Pollock

Nife Corporation manufactures Uninterruptible Power Supplies, Battery Chargers, and Telecommunication Power Plants worldwide. NIFE specializes in Custom Design Equipment, and with Nickel Cadmium Batteries. NIFE recently merged with SAFT, and as a result, now holds a larger portion of the world market for Nickel Cadmium Batteries. SAFT-NIFE has provided the North American, and International markets with Quality, Workmanship, and prompt deliveries. They have been in the marketplace since 1944.

Industry Sector: Electrical Power Supply Equipment



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Canada

Norups Inc.

Box 13203
KANATA, Ontario
K2K 1X4
Tel: (613) 831-8419
Fax: (613) 836-1490
Export/Marketing Contact:
Mr. David Desjardins, P.Eng.
President

Norups Inc. (formerly Atlas Energy Systems of Canada Ltd.) has been manufacturing motor-generator power systems in Canada since 1980. The company now has systems installed in all Canadian provinces. Norups provides solutions to all power quality problems. Product lines include motor-generator power conditioners, frequency changers, and rotary uninterruptible power supply (UPS) systems. System sizes are from 2KVA to 3000KVA. Typical users are airports, avionics, and computer mainframe applications.
Industry Sector: Electrical Power Supply Equipment

Philtek Electronics Ltd.

2471 Vaxhall Place
RICHMOND, B.C.
V6V 1Z5
Tel: (604) 270-4642
Fax: (604) 270-8343
Export/Marketing Contact:
Mr. P. Pong
Marketing Manager

The company manufactures electric power conversion equipment, uninterruptible power supplies, DC to AC inverters, AC to DC power supplies, and industrial battery chargers.
Industry Sector: Electrical Power Supply Equipment

Pylon Electronics Inc.

147 Colonnade Road
OTTAWA, Ontario
K2E 7L9
Tel: (613) 226-7920
Fax: (613) 226-8195
Export/Marketing Contact:
Mr. Brian C. Wharton

Pylon Electronics Inc., a Canadian company, was incorporated in 1955 and is a wholly owned subsidiary of Autrex Inc. of Weston, Ontario. The Pylon group comprises three operating divisions in Montreal, Toronto, and Ottawa, and a subsidiary in Dartmouth, Nova Scotia. The Montreal Division has been in operation for over 35 years and designs and manufactures products for the telecommunications power systems market. A vigorous research and development program ensures product-line continuity and state of the art solutions to customer problems. Primary product categories are DC/DC converters, inverters, ringing generators, battery chargers and uninterruptible power supplies (UPS). The Ottawa Division was established in 1977 and has developed unique products in various areas of electronic instrumentation including ordinance and buried hazards detection, radiation monitoring and measurement (e.g. Radon gas), automated chemical analysis detectors, supervisory and control instruments for satellite ground stations and telecommunications maintenance and testing equipment.
Pylon Electronics Inc. has shown consistent and financially stable growth for over three and a half decades. Its policy of significant investment in people and products ensures a distinguished reputation for quality, service and innovation in products that are marketed worldwide.
Industry Sector: Electrical Power Supply Equipment

Spectrodyne System International Ltd.

4000 Bois Franc
ST. LAURENT, Quebec
H4S 1A7
Tel: (514) 331-9812
Fax: (514) 331-0379
Export/Marketing Contact:
Mr. A. Zaki
President

Established in 1975, Spectrodyne System International Ltd. has been dedicated to the design and manufacture of various "power" products and support items. Its customers include large and small telecommunication companies and utility (hydro) companies, both in Canada and abroad.
Products include:
-Battery chargers and switch gear.
Complete DC power systems 12 v to 120 v (VPS)
-Rectifiers - switchmode and SCR
-DC-to-DC converters
-Power supplies for base stations, repeaters and microwave stations
-Static invertors
-Distribution, alarm and monitoring panels
-Customization to suit specific applications
Industry Sector: Electrical Power Supply Equipment

Staticon Ltd.

390 Tapscott Road, Unit 5
SCARBOROUGH, Ontario
M1B 2Y9
Tel: (416) 291-3723
Fax: (416) 291-3871
Export/Marketing Contact:
Mr. Roland Hase
Marketing Engineer/Mgr.

Incorporated since 1964, Staticon Ltd. is an established Canadian company specialized in the design manufacture and application of essential DC and AC power supply equipment. Over 40,000 Staticon power systems and modules are in service worldwide. Staticon products are chosen for harsh and/or remote environments and critical applications including computer



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installations, microwave and satellite earth stations, railways, nuclear power stations, pipelines and refineries, pulp and paper mills, mines, hospitals, airport landing systems, ship-board systems, and military installations. Staticon power systems solutions ensure the lowest power project life-cycle costs attainable. Products include rectifiers, inverters, DC to DC converters, and uninterruptible power supply (UPS) systems.
Industry Sector: Electrical Power Supply Equipment

Thyristor Devices Ltd.

1893 Bonhill Rd.,
MISSISSAUGA, Ontario
L5T 1C1

Tel: (416) 564-2928

Fax: (416) 564-2945

Export/Marketing Contact:

Mr. Syd Sinclair
Vice President

Thyristor Devices Ltd.(TDL) designs and manufactures customised AC/DC power supplies. Established in 1968 to supply the electroplating industry, TDL has kept abreast with changing market needs and have recently gained approval from Ontario Hydro for its energy efficient rectifier design. The company's product line includes power supplies for technologies such as DC Arc furnaces, electro-painting motor-generator replacement, mine power centres, traction, refining, electrowinning, hard anodizing and Sandoz colour anodizing. The company is capable of competing in a global market with rectifiers currently operating on all five continents. TDL head office is located in Mississauga, Ontario and also maintains warehouse facilities in Port Huron, Michigan.
Industry Sector: Electrical Power Supply Equipment

TME-Delta Inc.

177 Samuel St., P.O. Box 2049

SARNIA, Ontario

N7T 7L3

Tel: (519) 332-8800

Fax: (519) 337-5466

Export/Marketing Contact:

Mr. Dave Waters

Manufactural Supervisor

TME-Delta Inc. was founded in 1958 in Sarnia, Ontario as an electromechanical sales and service organization. Today it has four operating branches in southwestern Ontario (London, Wallaceburg, & Strathroy as well as Sarnia) carrying out electronic as well as electromechanical activities and employs upwards of 80 persons. The Company also manufactures both rotary and static phase converters which are devices that will convert single phase electrical power to the more common industrial supply of three phase power for operating process or production equipment. These devices range up to 60 HP units which will operate 180 HF of connected load. Design and build packages for industrial control applications, including PLC's, is also part of TME-DELTA's line. In 1989, the company received the Ontario Chamber of Commerce's Business Achievement Award for Business Excellence.

Industry Sector: Electrical Power Supply Equipment

Tycor International Inc.

6107-6th Street S.E.

CALGARY, Alberta

T2H 1L9

Tel: (403) 259-3200

Fax: (403) 253-0663

Export/Marketing Contact:

Mr. Will Frey

C.E.O. & President

Tycor International Inc. combines ongoing research and development with field expertise in the manufacture of Power Conditioning Equipment used to protect the power supply of micro-processor based devices. Tycor Products incorporate finely-tuned circuitry which removes all normal and common mode noise, EMI and RFI, while protecting against massive surges as well as the conditions caused by brownouts and blackouts and the now very damaging HARMONICS. Tycor has export clients in Australia, Singapore, Hong Kong, Thailand, and the United States. Tycor's range of Power Conditioning Products includes AC Power Line Filters, Uninterruptible Power Filters, Regulating Line Filters, and Isolating Line Filters.

Industry Sector: Electrical Power Supply Equipment

Xantrex Technology Inc.

1584 Fell Avenue

NORTH VANCOUVER, B.C.

V7P 3E7

Tel: (604) 984-4268

Fax: (604) 984-9758

Export/Marketing Contact:

Mr. N. Mulji

Marketing Engineer

Xantrex is a power conversion specialist manufacturing a family of power supplies for a wide variety of applications in industrial, educational and R&D environments. Xantrex designs and manufactures instrumentation quality laboratory and system supplies ranging from 50 watts to 12,000 watts.

Industry Sector: Electrical Power Supply Equipment



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Canada

FLAMEPROOF EQUIPMENT

NEI Mining Equipment Canada

(Division of Rolls-Royce
Industries Canada Inc.)

55 Harbour Dr., Sydney Industrial Park,
P.O. Box 967
SYDNEY, Nova Scotia
B1P 6J4

Tel: (902) 564-5592

Fax: (902) 564-3964

Export/Marketing Contact:

Ms. Marilyn Clements
Operations Manager

Manufacturer and supplier of
Underground I.S. ("intrinsically safe") &
FLP ("flameproof") electrical equipment
principally for the Canadian mining
industry.

Products include: HV & LV distribution
switchgear, motors, industrial controlgear,
main ventilating fans, pumps, acomb
switches, compressors, mine winders,
haulage systems, fans, battery and trolley
locomotives, transformers, gate end boxes,
control gear, communication systems, radio
& telephone as well as repair and
refurbishing of Gate End Boxes (electrical
switchgear for mines), and transformers.

Industry Sector: Flameproof Electrical
Equipment

FUEL CELLS

Alupower Canada Limited

Counter Court, Unit 20
407 Counter Street
KINGSTON, Ontario
K7L 5N7

Tel: (613) 541-2287

Fax: (613) 541-2286

Export/Marketing Contact:

Dr. John H. Stannard
Senior Development Engineer

Alupower is a world leader in the
development of aluminum-air fuel cells.
The cells have a variety of applications;
including reserve and stand-by power, and
electric vehicles.

Industry Sector: Fuel Cells

Astris Inc.

2480 Durwin Drive
MISSISSAUGA, Ontario
L5L 1P9

Tel: (416) 828-7700

Fax: (416) 828-7716

Export/Marketing Contact:

Mr. Jiri K. Nor
President

Astris Inc. manufactures electrochemical
test cells, small fuel cells, and fuel cell
generators up to 2 KW. The products are
used in research and development for fuel
cells, batteries and electrochemical
processes.

Industry Sector: Fuel Cells

Ballard Power Systems Inc.

900 West 1st Street, Unit 107
NORTH VANCOUVER, B.C.
V7P 3N4

Tel: (604) 906-9367

Fax: (604) 906-3262

Export/Marketing Contact:

Mr. David McLeod
V.P. Marketing

Ballard Power Systems develops and
manufactures Solid Polymer Fuel Cell
Power Plants. These power plants can
range in size from 5 Kilowatts to
Megawatts. Designed as a modular
system, these power plants can operate on
pure hydrogen, methanol or natural gas.
The natural gas product will be available
by 1994 and will range from 40 kilowatts
to 500 kilowatts. Ballard Power is also
involved in developing Solid Polymer Fuel
Cells for transportation applications and is
currently developing a 100 kW power
system for a transit bus.

Products include:

PGS-103 - The device is a 3 kW net
demonstrator power plant, capable of
operating on hydrogen and air.

PGS-105 - The device is a 5 kW net
demonstrator power plant capable of
operating on hydrogen and air.

Industry Sector: Fuel Cells

FUSES

Gould Shawmut Co.

88 Homer Avenue
TORONTO, Ontario
M8Z 5Y3

Tel: (416) 252-9381

Fax: (416) 252-6572

Export/Marketing Contact:

Mr. John Sencich
Sales & Marketing Manager

Gould Shawmut Company is Canada's
largest manufacturer of electrical fuses and
the only Canadian manufacturer of HRCI
and HRCII fuses. The company
manufactures a wide range of fuse
products which includes Fuse Blocks,
Power Distribution Blocks and Wire Duct.



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The manufacturing and office facilities are located in Toronto where there are some of the most modern engineering and testing facilities available in the industry. Technical services are available through Technical Specialist located in Toronto and Montreal. Gould Shawmut has been dedicated to providing value added products.

Industry Sector: Fuses

GEARMOTORS

Bauer Gearmotors Ltd.

#14-3105 Unity Dr.
MISSISSAUGA, Ontario
L5L 4L2
Tel: (416) 828-6996
Fax: (416) 828-6998

Export/Marketing Contact:
Mr. Peter Giddings
General Manager

Bauer Gearmotors Ltd. is a wholly owned subsidiary of Eberhard Bauer, W. Germany.

Products include:

- Geared Motors
- Inline
- Helical Worm
- Shaft Mounted
- Spiral Bevel

-Gear boxes in the above styles
Industry Sector: Gearmotors

SEW-Eurodrive Company of Canada Ltd.

210 Walker Drive
BRAMELEA, Ontario
L6T 3W1
Tel: (416) 791-1553
Fax: (416) 791-2999
Export/Marketing Contact:
Mr. G.R. Jackson
Marketing Manager

SEW-Eurodrive Company of Canada Ltd., established in Canada in 1974, is the Canadian arm of SEW-Eurodrive G.m.b.H. The company has three plants in Canada, with locations in Vancouver and Montreal and including the headquarters in Bramalea, Ontario. SEW-Eurodrive is Canada's leading supplier of gearmotors, gear reducers, mechanical adjustable speed drives and related products. The products are backed by Eurodrive Canada's team of application engineers, and a world-wide network Eurodrive assembly plants providing local parts and service capabilities.
Industry Sector: Gearmotors

GENERAL (MULTI-SECTORAL)

Asea Brown-Boveri Inc.

2 Complexe Desjardins
East Tower, Room 3223
MONTREAL, Quebec
H3B 1B9
Tel: (514) 987-1677
Fax: (514) 987-9845
Export/Marketing Contact:
Mr. Wido Hoville
Vice Pres., International Sales

With more than 5000 employees, ABB Canada is one of Canada's largest electrical equipment manufacturers, manufacturing for the most part power generation, transmission and distribution equipment. With its head office at St. Laurent, Quebec, ABB Canada has eleven manufacturing plants in Quebec and Ontario, and sales offices across Canada.

The Canadian company's principal business areas consist of: 1) Transmission systems for electrical power generated in remote northern locations, 2) Transformers and electrical drives for domestic use and for export; and more recently, and 3) Engineering and supplying process control equipment for state-of-the-art pulp and paper plants. Product lines include transformers (power, distribution, instrument, and dry), capacitors, switchgear accessories, medium voltage switchgear, high voltage switchgear, robotics, relays, transformer radiators, meters, shunt reactors, drives, exciters, relay systems, dry transformers, and boilers.

Industry Sector: General (Multi-sectoral)

Babco Electric & Engineering Ltd.

P.O. Box 3215, Station "D"
EDMONTON, Alberta
T5L 4J1
Tel: (403) 447-1386
Fax: (403) 447-1309
Export/Marketing Contact:
Mr. George Babechuk
President

Babco Electric & Engineering Ltd. was formed in 1971 primarily as a manufacturer of steel, aluminum and stainless steel enclosures for the electrical industry. In 1972, the company began manufacturing industrial instrumentation and control panels relative to electric electronic and pneumatic process control systems. This has now been expanded to include integrated variable speed drive systems, programmable controllers and robots. In 1973, Babco began manufacturing low and medium voltage motor control centers and low and high voltage switchgear. That same year the company added a service division to its operation, in order to give its customers the utmost in service satisfaction. Babco now operates under four divisions namely: a) Sheet Metal Division, b) Instrumentation and Control Division, c) Low and High Voltage Switchgear Division, and d) Field Service Division. Babco is a dynamic systems manufacturer



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and does extensive work for oil & gas, pulp & paper, forestry, mining and utilities. Its growth is continuing to expand in North America and world market.

Industry Sector: General (Multi-Sectoral)

GE Canada

2300 Meadowvale Blvd.
MISSISSAUGA, Ontario
L5N 5P9

Tel: 1-800-668-4640

(416) 858-9009

Fax: (416) 858-5260

Export/Marketing Contact:

General Electric Canada is Canada's largest electrical manufacturer, with more than 10,000 employees in 16 manufacturing plants. Products include hydro turbines and generators, electric motors, time of day meters, load management equipment, and consumer, automotive, commercial and industrial lighting products including new technology halogen lamps. CAMCO, a GE subsidiary, is the largest manufacturer and distributor of major home appliances in Canada, with brand names GE, Hotpoint, Moffat, McClary, as well as private brands; product lines include refrigerators, ranges, dishwashers, washers and dryers. GE Canada is also a major Candu partner, providing fuel, fuel handling equipment and services to Ontario Hydro.

Industry Sector: General (Multi-sectoral)

Guillevin International Inc.

6099 Vipond Drive
MISSISSAUGA, Ontario
L5T 2B3

Tel: (416) 670-8433

Fax: (416) 674-0660

Export/Marketing Contact:

Mr. Dushyant L. Shinde
Manager Export Projects

Guillevin International Inc., established in 1906 is one of the largest Canadian electrical equipment and construction material supplier with 479 million dollars annual sales (1990). Guillevin exports totally coordinated electrical packages for power plants, transmission and distribution, steel plants, mining and several other industrial and construction projects. Guillevin represents most of the North American manufacturers; interfaces with architects and engineers, financial institutions and governments and provides complete procurement and technical services to customers worldwide. Products include: Electrical Construction Material and Accessories, Lamps, Lighting Fixtures and Lighting Systems*, Wire, Cable, Conduit and Cable Trays, Heating, Ventilation and Accessories*, Closed Circuit TV, Security Systems and Fire Alarms, Communication and Paging Systems, Programmable Logic Controllers & Factory Automation, U.P.S. Systems, Batteries, Rectifiers, Diesel Gen. Sets*, Motor, Motor Control & Drive Systems*, Metering and Instruments, Relay and Protection Equipment, Power Systems Apparatus, Bus Duct, Transformers, HV/LV Switchgear & Distribution equipment, Substations and Transmission/Distribution Systems, Power Plant Electrical Accessories, Connectors, Hardware and grounding equipment.

Industry Sector: General (Multi-Sectoral)

Siemens Electric Ltd.

1180 Courtney Park Drive.
MISSISSAUGA, Ontario
L5T 1P2

Tel: (416) 564-1995

Fax: (416) 564-5855

Export/Marketing Contact:

Mr. Hans-Ulrich Schliefer
Senior V.P., Standard Products

Siemens Electric Limited is one of Canada's largest electrical and electronic manufacturers, with more than 3000 employees. The Canadian Head Office is at Mississauga, Ontario, with manufacturing plants in Quebec, Ontario, and Alberta. Canadian manufacture comprises primarily electrical products and automotive electronics. Electrical products include motor control centres, starters, panelboards, switchboards, load centers, miniature circuit breakers, safety switches, panels, ducts, electrostrip, meters, switchgear, medium voltage control products, baseboard heaters, wall insert heaters, unit heaters, architectural heaters, and heater controls (thermostats).

Industry Sector: General (Multi-sectoral)

Trench Electric

71 Maybrook Drive
SCARBOROUGH, Ontario
M1V 4B6

Tel: (416) 298-8108

Fax: (416) 298-2209

Export/Marketing Contact:

Mr. Allan Finn

This 35 years old Canadian company employs approximately 750 people with more than 85 percent of its products exported around the world. With plants in Canada and Europe, Trench designs and manufactures heavy electrical equipment for utilities for use in transmission and distribution. A world market leader in both inductor technology (reactors & line traps) as well as high voltage (69 to 800kV) instrument transformers (capacitive voltage transformers and current transformers), Trench is



represented in more than 60 countries worldwide.

Products include:

- Air core and iron core reactors
- Line traps for power line carrier systems
- Coupling capacitors (69kV & UP) for PLC
- Capacitive voltage-transformers (69kV & UP) for metering & relaying
- Oil filled current transformers (69kV & UP)
- SF6 insulated current transformers (69 kV & UP)

Industry Sector: General (Multi-sectoral)

Westinghouse Canada Inc.

Box 2510, Sm 'A'
HAMILTON, Ontario
L8N 3K2

Tel: (416) 528-8811

Fax: (416) 528-8734

Export/Marketing Contact:

Mr. E.A. Robson

Westinghouse Canada is a technology-based company competing globally with a diverse range of electrical, electronic and mechanical products and services. Established in 1903, Westinghouse Canada is one of Canada's largest electrical manufacturers, with over 5000 people in 15 manufacturing plants in Canada and abroad and has sales and service operations throughout Canada. Products manufactured in Canada include industrial motors*, gas and steam turbines, airline data communications systems, sonar, radar, surveillance systems and optical line tracer systems, "Linatrol" and electrical distribution and control products.
Industry Sector: General (Multi-sectoral)

GENERATOR SETS

Cullen Canadian Inc.

9300-192nd Street
SURREY, British Columbia
V3T 4W2
Tel: (604) 888-2143
Fax: (604) 888-6583
Export/Marketing Contact:
Mr. K. Douglas Cullen
President

Cullen Canadian Inc. manufactures diesel powered generator sets and contracts for the turnkey installation of diesel power plants and gas turbine power plants.

Cullen Canadian Inc. designs and manufactures power management systems and power plant related switchgear.

Cullen employs design engineers that work to international quality control standards.

Product support is provided for all products sold by the company.

Products include:

-High speed diesel generator sets 10kW to 2000 kW

-Fully enclosed diesel generator sets on a modular design for fast installation and operation

-Medium speed diesel generator sets for power plants up to 20 megawatt unit sizes.

-Gas turbine generator sets for emergency standby, prime power or utility use.

Containerized from 200 kW to 3 megawatt for fast installation

-Switchover and motor control centres

Industry Sector: Generator Sets

Global Thermoelectric Inc.

333 50th Avenue. S.E.
CALGARY, Alberta
T2G 2B3
Tel: (403) 253-3552
Fax: (403) 253-4607
Export/Marketing Contact:
Mr. Alan G. McNaughton
Sales & Marketing Manager

Global Thermoelectric Inc. is a supplier of highly reliable, low maintenance power systems. Using thermoelectric generators Global provides power for applications requiring from 10 watts to 6000 watts. Global provides power supplies for numerous applications including cathodic protection, remote radio repeaters, data gathering, SCADA and navigational aids. Thermoelectric turn heat directly into electricity without any moving parts. Global manufactures portable and stationary thermoelectric generators. The generators require very little maintenance and have an extremely long operating life. The generators burn gaseous fuels such as propane, natural gas or liquid fuels such as diesel.

Industry Sector: Generator Sets

J.A. Faguy & Fils Ltée

750 Montee de Liesse
ST. LAURENT, Quebec
H4T 1P3
Tel: (514) 341-3610
Fax: (514) 733-0196
Export/Marketing Contact:
M. Raymond Flynn

Established in 1948, the company specializes in the assembly and sale of generator sets, mobile lighting towers, and the distribution of associated products. The company has had substantial export success in South America and Africa, and has 100 employees in 6 branches throughout Eastern Canada.

Industry Sector: Generator Sets



Industry, Science and Technology Canada
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Canada

Mechron Energy Ltd.

2437 Kaladar Avenue
OTTAWA, Ontario
K1V 8B9
Tel: (613) 733-3855
Fax: (613) 733-8197
Export/Marketing Contact:
Mr. E.J. O'Brien
Vice President, Sales

Mechron Energy Ltd. engineers, furnishes and installs electric power generating systems primarily for critical applications in hostile environments. It also maintains and services some of these systems for their customers. The company has engineered over 5000 custom engineered AC and DC power systems with a 99.999% field-proven reliability. Mechron's products carry CSA certification and are manufactured to NATO quality assurance certifiable to AQAP-4. Specialized power systems include their CYCLE CHARGE prime power system which reduces fuel consumption by over 70% and remote control and monitoring system (RMCS) for the management of remote diesel power generation systems. The company's sales activities are primarily concentrated in the Canadian market with some export marketing being done in tandem with other Canadian firms. The company is not presently represented outside Canada. Mechron would like to create more export opportunities and believes that this activity is best carried out in conjunction with representatives in specific countries who are knowledgeable and experienced with Mechron's product lines. The company would also entertain licensing and/or technology transfer of their technical know-how to appropriate parties.

Industry Sector: Generator Sets

Simpson Power Products Ltd.

110 Woolridge Street
COQUITLAM, British Columbia
V3K 5V4
Tel: (604) 520-3611
Fax: (604) 520-1974
Export/Marketing Contact:
Mr. Derek L. Thomson
Contracts & Quotes

Simpson Power Products Ltd., selling products under the trade name Simpower, has been designing and manufacturing generator systems since 1969. Simpower generator systems are manufactured in Vancouver and are marketed nationally and internationally. These systems serve as alternative power sources for airports computer centres, hospitals, schools, shopping centres, apartments, telephone exchanges, etc. Simpower also designs and builds engine drive / propulsion systems for tugboats, fishboats, pumps, cranes and sawmills.

Products include:

-Generator Sets:

-Diesel to 1600KW, Natural

Gas/Propane to 2000KW

-Marine Propulsion Systems -29BHP to 2159BHP

Industry Sector: Generator Sets

Simson-Maxwell

1605 Keblet Way
PORT COQUITLAM, B.C.
V3C 5W9
Tel: (604) 944-7100
Fax: (604) 944-7200
Export/Marketing Contact:
Mrs. B. Marshall

Simson-Maxwell has been designing and manufacturing diesel generator sets, transfer switches, paralleling gear, and generator and engine controls since 1941. Power systems from 2 kilowatt to 7500 kilowatt are available using generating sets, batteries and solar power. Dependable prime and standby power systems used for remote, unattended operation have been designed and manufactured by Simson-Maxwell's power

specialists and technicians. With 100 employees and branches in Vancouver, Prince George and Nanaimo, B.C. and Edmonton and Calgary, Alberta. Simson-Maxwell is well suited to meet all power requirements.

Industry Sector: Generator Sets

HEATING EQUIPMENT

Copal (Canada) Ltee

80, rue Pepin
ST-EUSTACHE, Quebec
J7R 5B7
Tel: (514) 473-2330
Fax: (514) 473-6441
Export/Marketing Contact:
M. Pierre Côté

Copal (Canada) Ltee manufactures novel precast electric heating modules, patented in Canada and the United States in 1986. Copal's modules have resolved numerous installation problems where electric heating cables are used in floors, ceilings, and for melting snow. Copal's units are precision manufactured with fibreglass reinforced concrete. The heating cables are precisely installed in the molds prior to cooling. The units are then prestressed and laminated in modules.

Industry Sector: Heating Equipment

Elkon Inc.

1961 - 55th Avenue
DORVAL, Quebec
H9P 1G9
Tel: (514) 636-0510
1-800-363-8105
Fax: (514) 636-5647
Export/Marketing Contact:
Mr. H.G. Clark

Established in 1962 Elkon Inc. manufactures a wide range of open coil electric heating products including electric pipe heaters, duct heaters, electric unit heaters and resistance load banks, at Dorval, Quebec. In addition Elkon builds SCR power controllers for resistive heating loads, up to 400 Amps at 600



Volts. Elkon maintains a sales office in Toronto to serve the Ontario market.
Industry Sector: Heating Equipment

Teledyne Still-Man Canada

55 Underwriters Road
SCARBOROUGH, Ontario
M1R 3B4
Tel: (416) 751-5566
Fax: (416) 751-2215
Export/Marketing Contact:
Mr. John Convey
Executive Vice-President

Teledyne Still-Man Canada manufactures a wide variety of Canadian Standards Association (C.S.A.) and Underwriters Laboratory (U.L.) approved electrical heating devices for residential and industrial applications. The product list includes: residential products such as range/stove oven and surface units, small appliance tubular elements, residential electrical space heating elements for space and comfort heat, industrial process heaters and industrial immersion screw-plug and flange heaters. The company has the design and manufacturing capabilities in Canada to make any type of electrical tubular element required up-to five (5) meters in length with voltages up-to 600 Volts with a maximum power rating limited by the safety of the application. Teledyne Still-Man Canada will assist each customer select the best and proper element for their application and manufacture it to the customer's specification, in quantities from a few to very large numbers required for mass production.

Industry Sector: Heating Equipment

Thermon Canada Limited

150 Blue Heron Drive
HYDE PARK (LONDON), Ontario
NOM 1Z0
Tel: (519) 657-3400
Fax: (519) 657-9030
Export/Marketing Contact:
Mr. G.F. Heizer
President

Thermon designs and manufactures a broad line of electric heating cables for industrial temperature maintenance applications and commercial snow/ice melting systems. A full complement of mechanical and electronic temperature controllers and monitor complete the fully engineered system. Thermon's Canadian made products include mineral insulated, constant power density and self-regulating cable and cable sets. Since incorporation in 1966, Thermon has directed their total resources to provide the highest quality products available to the Canadian and export marketplace.

Industry Sector: Heating Equipment

Vortek Industrial Ltd.

1820 Pandora Street
VANCOUVER, B.C.
V5L 1M5
Tel: (604) 251-2451
Fax: (604) 251-3356
Export/Marketing Contact:
Mr. Gary Albach
Executive Vice-President

Vortek is a private Canadian company that designs and manufactures the world's most power Arc Lamp Systems for scientific and industrial users. Listed in the Guinness Book of Records under the category 'Brightest Light', Vortek sells its lamp systems worldwide for industrial materials processing, high temperature testing, sunlight simulation and engineering studies. Through a joint venture with Eaton Corporation in the U.S., Vortek has supplied lamp systems worldwide for customers which include: Motorola, Siemens, IBM, Telefunken, Honeywell, Hyundai, Harris, Philips, NTT and

Tektronics. Vortek currently manufactures 4 models of lamp systems, ranging in power from 50 to 300 kW, together with standard optical reflectors. In addition, Vortek designs and manufactures custom optical reflectors as required for specific applications. Vortek supplies its customers with full service support including engineering design assistance, on-site turnkey installation, and both factory and on-site training in the operation and maintenance of Vortek facilities. Vortek is expanding its business to include design and manufacturing of equipment for industrial heat treating using its patented Whitelight™ technology. The company maintains a customer applications laboratory in Vancouver for advanced process development. Vortek is a private Canadian company founded in 1976 on research done at the University of British Columbia. International patents were granted on innovations for cooling arc lamps that allowed operation at high continuous powers. Vortek is the exclusive licensee of this technology and has continued the technical development and marketing of powerful arc lamps. Vortek maintains sales agents in Europe, Japan and North America for its arc lamp systems. These representatives are supported by joint ventures in all geographic markets for technical and market development of Whitelight™ products.

Industry Sector: Heating Equipment

Westcan Electric Heating Inc.

5895 Whittle Road
MISSISSAUGA, Ontario
L4Z 2H4
Tel: (416) 890-6006
Fax: (416) 890-6012
Export/Marketing Contact:
Mr. Ron Ofield
Vice President- Sales and Marketing

The company manufactures electrical comfort heating products, including baseboard heaters, and controls for the residential, commercial and industrial markets. The products are sold under the brand names 'Westcan' and 'Electromode'. They also supply controls and energy management systems.



Industry, Science and Technology Canada
Industrie, Sciences et Technologie Canada

Canada

Industry Sector: Heating Equipment

HYDROGEN PLANTS

Electrolyser Corporation Ltd.

122 The West Mall
ETOBICOKE, Toronto, Ontario
M9C 1B9
Tel: (416) 621-9410
Fax: (416) 621-9830
Export/Marketing Contact:
Mr. Conyers Baker
Vice President- Marketing

The Electrolyser Corporation Ltd. is a Canadian manufacturer and supplier of electrolytic hydrogen plants for on-site production of hydrogen as a feedstock or atmosphere gas for a variety of chemical and industrial applications. Electrolyser has been in the hydrogen business for more than 40 years, and currently has 840 installations in 86 countries. Electrolyser is recognized as a world leader in the industry, having supplied more than half of the total number of electrolytic hydrogen plants currently installed world wide. In addition, through an extensive research and development program, Electrolyser hydrogen plants offer the highest level of efficiency and safety in the industry. Large scale electrolytic hydrogen plants have been developed for application in the energy sector and in the large scale production of such products as hydrogen peroxide and synthetic ammonia. Standard industrial size hydrogen feedstock or atmosphere gas in such areas as hydrogeneration of oils, fats, fatty acids, manufacture of float glass, high temperature metal process such as sintering, brazing, annealing, etc. Electrolyser also supplies a pre-assembled hydrogen generator for electrical generator cooling at thermal power stations.

Industry Sector: Hydrogen Plants

INDUSTRIAL CONTROLS

A. Comeau & Associates Ltd.

4718 - 90 A Avenue
EDMONTON, Alberta
T6B 2P9
Tel: (403) 465-9961
Fax: (403) 465-4990
Export/Marketing Contact:
Mr. Neil M. McNeil
R.E.T.

Established in 1976, the company has become one of the world leaders in oilfield electrical control products & systems. The company manufactures the Keltronics line of submersible pump controllers along with a wide variety of control & protection equipment. Oilfield automation system design, integration, and installation services complement a comprehensive list of products & services available from the company. Specific products include the Keltronics K095 AMC Advanced Motor Controller, Keltronics K687 SPC Submersible Pump Controller, Keltronics K889 SMC Submersible Motor Controller, Keltronics K973 MPC Motor Protection Centre, Surge Shop Transient Suppressor, Optimizer Pump-off Control System, Scanwell Oilfield Automation System, and Keltronics Backspin Relay.

Industry Sector: Industrial Controls

Allen-Bradley Canada Limited

135 Dundas Street
CAMBRIDGE, Ontario
N1R 5X1
Tel: (519) 623-1810
Fax: (519) 623-8930
Export/Marketing Contact:
Mr. W. C. Torrance
V.P. Sales and Marketing

To meet the needs of customers worldwide, Allen-Bradley relies on uncompromising standards - and a "Zero defects" philosophy - to consistently produce high quality products. Allen-Bradley's products can be classified into the following lines:

The Industrial Automation Control Products include a broad range of solid-state and electromechanical control devices. This line includes starters, sensors comprising of limit switches, proximity, speed, overload, undervoltage, barcode readers and vision inspection products. This also has products such as relays and operator interface devices. Drives and Motion Products include AC and DC drives, Motion Control drives, Computerized Numerical Controls and Intelligent Motion controls. Industrial Computers provide industry with a broad range of robotic control, process control systems as well as general automation applications.

Industry Sector: Industrial Controls



Industry, Science and
Technology Canada

Industrie, Sciences et
Technologie Canada



Canada

Ascolectric Limited

10 Airport Road
BRANTFORD, Ontario
N3T 5M8

Tel: (519) 758-2700
Fax: (519) 758-5540

Export/Marketing Contact:

Mr. Dave H. Laackman
Manager - Sales & Marketing

Ascolectric Limited was established in Brantford, Ontario in 1965. The Company serves its Canadian customers with Solenoid Operated Valves, Pressure and Temperature Switches, Rodless Pneumatic Cylinders and Electrical Control Products, such as Automatic Transfer Switches and Co-Generation controls which are also exported to the Asian countries and Europe. The Company has 225 employees in Canada and is well known by its customers for its high quality standards.

Products include:

-Electrically operated valves 1/8" to 3" pipe size

-Automatic Transfer Switches to 600V, 4000 AMP

-Multipole Relays and Contactors

-Synchronizing Controls

-Co-Generation Control Equipment

Industry Sector: Industrial Controls

Danfoss Manufacturing Company Limited

1230 Lakeshore Road East
MISSISSAUGA, Ontario
L5E 1E9

Tel: (416) 274-2311
Fax: (416) 274-4009

Export/Marketing Contact:

Mr. A.C. Hogendoom
President

Established in 1933, the Danfoss's head office is in Denmark, with about 14,000 employees world wide. Danfoss manufactures controls for Refrigeration, Heating Hydraulics, Industrial Instrumentation etc., motor starter special panels, and multi-speed starts for the electrical market up to 30 HP at 600V.

Industry Sector: Industrial Controls

Davis Controls Limited

2200 Bristol Circle
OAKVILLE, Ont.
L6H 5R3

Tel: (416) 829-2000
Fax: (416) 829-2630

Export/Marketing Contact:

Mr. D.P. Grenfell
President

The company manufactures capacitance probes, mercury contactor assemblies, high sensitivity conductivity liquid level switches, vibration, process, fluid and industrial electrical controls.

Industry Sector: Industrial Controls

Delco Industries Ltd.

12202 Old Yale Road
SURREY, B.C.
V3V 3X5

Tel: (604) 580-2442
Fax: (604) 580-2278

Export/Marketing Contact:

Mr. Helmut Ruff

Delco Industries Ltd. was established in 1973 in Vancouver, B.C. as a supplier of elevator replacement parts and components to customers worldwide.

Modern manufacturing facilities combined with distributor rights of European, U.S.A. and Brazilian manufacturers for quality equipment have made Delco Industries Ltd. a reliable source in the industry in many countries. Delco manufactures complete microprocessor and relay logic based controllers for hydraulic and traction elevators offering many features for any type of installation and electronic safety devices and printed circuit boards for the elevator industry

Industry Sector: Industrial Controls

Displayco Ltd.

85 Dolomite Drive
DOWNSVIEW, Ontario
M3J 2N1

Tel: (416) 663-6405
Fax: (416) 663-6492

Export/Marketing Contact:

Mr. J.D. Rathgeber
President

Displayco Ltd. is a family owned business incorporated in 1978 and specializes in mosaic graphic display systems and interface for the fire alarm industry.

Displayco Ltd. manufactures mosaic graphic displays for traffic control systems, gas, water and electric utilities, and industrial control rooms. The display system interface includes lamp drives, digital displays and a "SmackLink" intelligent serial interface to PCs. The interface system is used for lamps and numeric displays, and is also used in the fire alarm industry to operate remote annunciators. Specific products also include the "Numerix" numerical display system with 1/2" to 4" digits.

Industry Sector: Industrial Controls

Durmitor Inc.

154 Caster Avenue, Unit 2
WOODBIDGE, Ontario
L4L 5Y7

Tel: (416) 856-4800
Fax: (416) 856-4802

Export/Marketing Contact:

Mr. B. Veljkovic
President & General Manager

Established in 1972, Durmitor has expertise in the fields of electronics, electro-mechanical assemblies and electrical controls. It specializes in custom controls which are not available off-the-shelf. Durmitor designs and manufactures remote telemetry controls operating hearing and air-conditioning systems in multi-storey buildings, in addition to industrial control systems and has wide experience in custom start-up services.

Industry Sector: Industrial Controls



Industry, Science and
Technology Canada

Industrie, Sciences et
Technologie Canada

Canada

Electro-Mécanik Inc.

445, Marconi
STE-FOY, Quebec
G1N 4A7
Tel: (418) 683-1724
Fax: (418) 683-6712
Export/Marketing Contact:
M. Jean-N Bgin
Vice President

Founded in 1962 as an electric motor repair and overhaul firm, Electro Mécanik now includes in its services the design and manufacture of automation control products. Electro Mécanik's engineers work closely with industry in the design and installation of sophisticated advanced technology automation control panels and system. The company also manufactures power factor controllers* employed to reduce energy costs.

Industry Sector: Industrial Controls

Elektronik Micro Tech Inc.

1390, De Coulomb, Suite C
BOUCHERVILLE, Quebec
J4B 7J4
Tel: (514) 641-4632
Fax: (514) 641-4756
Export/Marketing Contact:
M. Jean-Guy Bessette
President

Established in 1979, EMT has 20 professionals which are specialized in the following fields: R&D in electronics controls and appropriate software, Manufacture of Traffic Directional Monitoring systems for bank applications, Battery charger controls for golf cart systems, Speed traction control for electrical vehicles, Natural gas/regular gas transfer control, and Safety road signalization systems. Clients include financial institutions, industrial sector, and government agencies. EMT's markets to the U.S. (East coast region) and Barbados (West Indies).

Industry Sector: Industrial Controls

Elicon Industrial Controls Ltd.

#203 - 7080 River Road
RICHMOND, B.C.
V6X 1K5
Tel: (604) 273-1654
Fax: (604) 273-0012
Export/Marketing Contact:
Mr. R.A. Cox
President

Elicon specializes in the automation of industrial plants. Elicon services include feasibility studies, power and control engineering, control system configuration, programming, documentation and start-up help, with emphasis on excellence in service at competitive rates. Soon after Elicon's inception in 1975, it pioneered the use of programmable logic controllers in board plants, sawmills, pulp mills, mining, material handling and water treatment facilities. While offering complete electrical engineering services with CAE/CAD, including budgets, specs, power, grounding and lighting, Elicon still offers proven state-of-the-art technology for logic and process controls, graphics, instrumentation for industry. *A new department now specializes in energy efficiency and power quality, working closely with B.C. Hydro on their "Power Smart" program.

Industry Sector: Industrial Controls

Grenmont Ltd.

2200 Bristol Circle
OAKVILLE, Ontario
L6H 5R3
Tel: (416) 829-2628
Fax: (416) 829-2630
Export/Marketing Contact:
Mr. D.P. Grenfell

Grenmont Ltd. is a wholly owned subsidiary of Davis Controls Ltd., a well established distributor of industrial controls and electronic equipment. Davis has been in business for 57 years and maintains sales offices and warehouses across the country. Grenmont Ltd. was established in 1986 to concentrate on energy conservation and environmental products and markets.

Products include:

*CONSTAT Occupancy Sensor Based HVAC Controllers. Used for energy conservation in hotel room applications (when the guest is not in the room the controller senses his absence and turns the heating/air-conditioning into the "setback" mode; this typically saves about 30 % of the annual energy bill.)

*Grenmont Ltd. is also a supplier of other related equipment used in energy conservation and in-door air quality control. These include occupancy sensor based systems for the control of humidity, and the avoidance of mildew damage, also energy conservation load controllers time switches, etc.

Industry Sector: Industrial Controls



Hewitt Equipment Limited

5001 Trans-Canada Highway
POINTE-CLAIRE, Quebec
H9R 4R6

Tel: (514) 426-3000

Fax: (514) 426-5224

Export/Marketing Contact:

Mr. Guy Sanscartier

Hewitt manufactures custom made electrical control panels for diesel generating sets, and switchgears for substations and generating stations.
Industry Sector: Industrial Controls

Klockner-Moeller Ltd.

7275 Rapistan Court
MISSISSAUGA, Ontario
L5N 5Z4

Tel: (416) 542-2323

Fax: (416) 542-2321

Export/Marketing Contact:

Mr. C. Chua

Klockner-Moeller Ltd. has served the Canadian industry for over 30 years and has built a strong market reputation for excellence in product quality and customer service. The company manufactures a comprehensive range of quality motor control and industrial electronic and automation products designed for industrial applications. Klockner-Moeller has its Head Office in Mississauga, Ontario, Factory in Granby, Quebec, and fully integrated facilities in major cities across Canada. Branches include extensive stock, a complete workshop for assembly, wiring and testing, and a design office to support the sales force. Distribution of Klockner-Moeller products is available through highly efficient authorized electrical distributors and the company's network of branches.

Industry Sector: Industrial Controls

Leecraft Industries Ltd.

130 McLevin Ave. Unit 1
SCARBOROUGH, Ontario
M1B 3R6

Tel: (416) 292-4463

Fax: (416) 292-4295

Export/Marketing Contact:

Mr. W. Welk

Marketing Manager

Leecraft was established in 1971 to manufacture and market pilot lights to the appliance industry. The Company has steadily expanded to typically 100 staff and manufactures 80% of items sold. Application engineering with fast custom building is a company philosophy. The product mix today includes pilot lights from 2 volts to 600 volts along with rocker, toggle and matrix switches. For the telecom industry the Company manufactures audio, coax or video jacks and jack panels, plus complete jackfield assemblies up to DSX-3. Recent product added is the DSX-3 or video restoration switch.

Industry Sector: Industrial Controls

London Mat Industries Ltd.

635 Newbold Street
LONDON, Ontario
N6E 2T8

Tel: (519) 681-2980

Fax: (519) 685-9318

Export/Marketing Contact:

Mr. Heine Holm

President

London Mat Industries Ltd., is the world's largest manufacturer of treadle switches, trade name MATEX, used on transit vehicles for door safety, door opening and passenger counting. Most of the major manufacturers of passenger counting systems use the Matex treadle switches for counting sensors. They have proven to be the most accurate and indiscrete method of passenger monitoring found. Matex treadle switches are installed on vehicles at such transit properties as Amsterdam, Berlin, Brussels, Copenhagen, Geneva, Hull, Innsbruck, London, Leon,

Melbourne, Mexico City, Milan, Montreal, Oslo, Ottawa, Paris, San Francisco, Seattle, Torino, Toronto, and Vancouver, to list just a few. The Matex treadle switches can also be found in such applications as traffic controls in the metro Subway in Paris, France, as well as being used on vehicle chairlifts and escalators.

Products include:

1. Electric floor switches (mats) as used to activate automatic doors in supermarkets, hospitals, hotels etc.
 2. Same switches (mats) are now used to provide safety around machinery, robotic equipment etc.
 3. Also used to control escalators and moving sidewalks to save energy
 4. Treadle Switches used on Transit Vehicles for door opening, door safety and as sensors for passenger counting systems.
- Industry Sector:** Industrial Controls

Marine Safe Electronics Canada Ltd.

37 Staffern Drive
CONCORD, Ontario
L4K 2X2

Tel: (416) 738-3744

Fax: (416) 738-5732

Export/Marketing Contact:

Mr. Arie Lapsker

General Manager

Marine Safe Electronics was founded in 1981, and manufactures a patented product for early detection of insulation failure in electrical rotating equipment i.e. motors and generators. Marine Safe products have been installed worldwide. Products include insulation fault detectors.
Industry Sector: Industrial Controls



Industry, Science and
Technology Canada

Industrie, Sciences et
Technologie Canada

Canada

Mep Technologies Inc.

3100 Peugeot
CHOMEDEY LAVAL, Quebec
H7L 9Z7
Tel: (514) 682-0804
Fax: (514) 682-3868
Export/Marketing Contact:
M. Armand Afilalo
President

Mep Technologies was founded in 1959 and is situated at Laval, Que. Mep designs and manufactures industrial electrical products such as control cabinets, busbar, industrial switches, and steel and aluminum components.
Industry Sector: Industrial Control

Multilin

215 Anderson Ave.
MARKHAM, Ontario
L3P 4C7
Tel: (416) 294-6222
Fax: (416) 294-1815
Export/Marketing Contact:
Mr. John Ellison
Export Manager

Multilin established in 1978 is the premiere manufacturer of electronic relays. Electronic motor protection relays are specified with a motor control centre to prevent costly shutdowns. Multilin offers controls for a range of low and medium voltage motors. Accessories such as drawout case mounting, remote meters and communication software are available to meet specific system requirements. Relays are manufactured at the plant in Markham, Ont. calibrated and final tested. Service centres are located in Markham, Ont and Houston, TX, USA. Sales offices are located throughout North America and worldwide to provide customers with current product information. Winner of the "Certificate of Merit" award for industrial design.
Industry Sector: Industrial Controls

Pacific Rim Polytech Corp.

8433 Lougheed Highway
BURNABY, B.C.
V5A 1X4
Tel: (604) 421-7555
Fax: (604) 421-4101
Export/Marketing Contact:
Mr. Sandy Michie
President

Polytech manufactures underground electrical junction boxes for in-ground electrical, communications, lighting and signalling connection applications - gas - irrigation underground valves. These are now being produced and marketed in Western Canada and North West U.S.A. The primary markets are governments, cities, highway maintenance, municipalities, districts, and electrical contractors.
Industry Sector: Industrial Controls

Pressenk Instruments Inc.

3870 Griffith
ST. LAURENT, Quebec
H4T 1A7
Tel: (514) 737-9562
Fax: (514) 735-9744
Export/Marketing Contact:
Dr. Miro Senk, Eng.
President

Pressenk Instruments Inc. designs and manufactures electronic controls for OEM manufacturers of major appliances, i.e. electric/gas ranges, refrigerator/freezers, dishwashers, etc. The Company's product line includes electronic wiring devices such as GFI (Ground Fault Interrupters), wall and portable dimmers for regular and halogen lamps, electronic transformers for halogen lamps and electronic ballasts* for fluorescent lamps. Highly trained professionals will work with the customer to develop the proper electronic controller for the application. Pressenk's electronic controls are designed for both the American and European markets.
Industry Sector: Industrial Controls

Pribusin Inc.

979 Alness Street
DOWNSVIEW, Ontario
M3J 2J1
Tel: (416) 665-1540
Fax: (416) 665-6249
Export/Marketing Contact:
Mr. Viktor Buhr
President

Pribusin Inc., designs and manufactures products for the process control industry. Products include isolated signal conditioners, alarm trips, power supplies RTD transmitters, multiplexer, and pH controllers to perform a wide variety of functions and applications. Pribusin's instruments have a reputation in the process control industry for low cost, dependability, and long life. Pribusin can, in many circumstances, custom engineer an instrument to fit your individual specifications.
Industry Sector: Industrial Controls

Ranco Controls Canada Ltd.

221 Evans Avenue
TORONTO, Ontario
M8Z 1
Tel: (416) 259-9254
Fax: (416) 231-3979
Export/Marketing Contact:
Mr. Marvin R. McLean
V.P. & G.M.

Ranco Controls Canada Ltd. is part of Ranco Incorporated which is a leading multinational manufacturer of electronic and electromechanical controls for regulating flow, temperature, pressure, humidity, current, time, light, and speed. Ranco products are used every day worldwide - for controlling energy, physical comfort, safety and convenience. Products manufactured in Canada are liquid filled temperature, regulating thermostats, refrigeration controls and humidity controls.
Industry Sector: Industrial Controls



Renfrew Electric Co. Limited

1210 Birchmount Road
SCARBOROUGH, Ontario
M1P 2C3
Tel: (416) 752-4611
Fax: (416) 752-4614
Export/Marketing Contact:
Mr. Al Shelton
President

Renfrew Electric Co. Limited, established in 1931, manufactures a wide range of wirewound resistors, electromechanical relays and terminal barrier strips. Resistors range in sizes from 3 watts to 225 watts including non inductive type windings. Renfrew electric has been manufacturing relays since 1950 and offers plug-in, panel mount, latching, sequence and time delay relays up to 10 Amp ratings. Power relays are available up to 30 Amp capability. Barrier Terminal blocks are available from 5 Amp to 90 Amp capacity. In addition, Renfrew Electric has the facility to supply various specialty coils.
Industry Sector: Industrial Controls

Square D Canada Electrical Equip. Inc.

6675 Rexwood Road
MISSISSAUGA, Ontario
L4V 1V1
Tel: (416) 678-7000
Fax: (416) 678-9514
Export/Marketing Contact:
Mr. Richard Copeland
Manager of Marketing

Square D is one of Canada's largest electrical and electronic control manufacturers, with about 900 employees in four plants. Product lines include switchboards, panelboards, motor control centers, enclosed combination starters, circuit breaker enclosures, meter centers and units, frontline rack components, unit substations, enclosed HVL switches, load centers, safety switches, manual starters, and special control panels.
Industry Sector: Industrial Controls

Startco Engineering Ltd.

406 Jessop Ave.
SASKATOON, SK
S7N 2S5
Tel: (306) 373-5505
Fax: (306) 374-2245
Export/Marketing Contact:
Mr. Ken Olan
Sales & Marketing Manager

Startco Engineering Ltd. is a Canadian electrical manufacturing company. Startco expertise in digital electronics has taken it into the heavy industries of Canada, Australia and the U.S.A. These industries include mining, pulp & paper, oil & gas, petrochemical, forest, and utilities. Products include microprocessor based motor protection units, ground-fault ground-check monitors, high output ground-fault ground check monitors, bearing protection units, neutral-grounding - resistor monitors, 3-phase ammeters, ground-fault panels, solid-state starters and portable mine power centres.
Industry Sector: Industrial Controls

Tekmar Control System Ltd.

4611 - 23rd St.
VERNON, B.C.
V1T 4K7
Tel: (604) 545-7749
Fax: (604) 545-0650
Export/Marketing Contact:
Mr. Steffen Knuever
President

Tekmar Control Systems Ltd. develops and manufactures precision electronic controls primarily for the hydronic heating industry. Its market is in North America with the majority of the product being exported to the United States. Tekmar uses the latest surface mount technology with robotic manufacturing to produce the excellent quality controls they are known for. All of their products are energy saving products and by definition, environmental products. These products include: Boiler temperature reset controls*, Mixing valve reset controls*, Boiler staging and reset controls*,

Hydronic heating zone controls, and set point controls*. Most of their products are researched and developed in Canada by Tekmar's in-house engineering staff.
Industry Sector: Industrial Controls

Telemecanique Canada Ltee

580, avenue Lepine
DORVAL, Quebec
H9P 1G2
Tel: (514) 636-9560
Fax: (514) 636-1207
Export/Marketing Contact:
M. B. Lafrance
Sales Manager

Telemecanique Canada Ltee has been established in Canada since 1970. The company manufactures industrial controls including relays, contactors, starters, motor control centers, and custom-built panels. Plants are located at Dorval, Quebec, and at Toronto, with distribution outlets across Canada
Industry Sector: Industrial Controls

Thomson Technology Inc.

19214-94th Avenue
SURREY, B.C.
V3T 4W2
Tel: (604) 888-0110
Fax: (604) 888-3381
Export/Marketing Contact:
Mr. Rick Martin
Operations Manager

Thomson Technology Inc. is a manufacturer of electrical apparatus for use in the Power Generation industry. Most T.T.I. products are employed in conjunction with engine-driven generator-sets, in either prime power or standby applications. These products include switchboards for single or multiple generators, wall and unit-mounted generator set control panels, automatic transfer switches, bypass/isolation switches, etc., and are applied in industrial, commercial and marine installations.
Products include:



- Panels & Switchboards -
- (Cogenerations & Parallel Generation- Uninterrupted Power Transfer)
- Transfer Switches
- Engine Controllers
- Remote Annunciators
- Sensing Devices
- System Controllers - *(ECS 500 System Controller c/w data logging, remote monitoring & control & SCADA)
- Battery Chargers
- Voltage Regulators
- Load Banks
- Meters & Accessories
- Industry Sector:** Industrial Controls

United Electric Controls (Canada) Ltd.

5320 Bradco Blvd.
MISSISSAUGA, Ontario
L4W 1G7
Tel: (416) 625-5082
Fax: (416) 625-5709
Export/Marketing Contact:
Mr. Malcolm Quinn

United Electric manufactures a complete line of pressure and vacuum controls, and differential pressure controls for industry. Temperature controls, indicating temperature controls, electronic controls thermocouples, RTD and thermistio probes are also manufactured at the Mississauga plant. United Electric have been manufacturing in Canada for over thirty years. Distribution is through distributors across Canada and U.E. sales offices.

Industry Sector: Industrial Controls

Western Industrial Programming

5840 Auto Road S.E. (P.O. Box 2044)
SALMON ARM, B.C.
V1E 4R1
Tel: (604) 832-9322
Fax: (604) 832-1885
Export/Marketing Contact:
Mr. Guy Duke

PLC's continue to be the focal point of Western Industrial Programming's business, but the company believes in combining the best attributes of the wide variety of control equipment and concepts available to create systems that are fast, reliable, flexible and reasonably priced. The staff has experience in complete system design, programming, custom printed circuit board design, control console fabrication, machine vision, colour graphic operator interfaces, management reports, system commissioning and service - everything needed to bring a control project to a successful conclusion.

Industry Sector: Industrial Controls

INSULATORS

Electro Porcelain Co. Ltd.

173 Roger Street, P.O. Box 400
WATERLOO, Ontario
N2J 4A9
Tel: (519) 576-2555
Fax: (519) 576-3780
Export/Marketing Contact:
Mr. Tammi Ruutopold

Electro Porcelain Co. Ltd. has supplied electrical equipment manufacturers with insulators since 1946. The company is a custom manufacturer of low voltage porcelain insulators and refractory products for heater trades. All of the compositions, for different usage in electrical fields, are dry press compression mouldings ranging from commercial vitrified porcelain (glazed or unglazed) to refractory compositions for heater plates and coil carriers. The company also supplies normal steatite parts for heater

trades, etc. Some technical compositions are also available for specific applications. Tooling for moulds is normally provided in house.

Industry Sector: Insulators

Hamilton Porcelains Limited

25 Campbell Street, P.O. Box 594
BRANTFORD, Ontario
N3T 5N9
Tel: (519) 753-8454
Fax: (519) 753-5014
Export/Marketing Contact:
Mr. Dave Stevenson
Sales Manager

Hamilton Porcelains Ltd. has for many years manufactured insulators for numerous customers who apply hardware to these insulators for the pole line industry. Among its other products are numerous shaped insulators used in electric furnaces for supporting resistance wire coils & ribbon, numerous arc chute components for high voltage circuit breakers. Insulators for edge wound resistors, etc.

Hamilton Porcelains Ltd. was founded about 135 years ago and has evolved from producing pottery to the making of electrical porcelains.

Products include:

- Pole Line Insulators - strains, spools, standoffs, bus. "U" bolt Ins.
- Edge Wound Resistor Porcelains
- Porcelains for Coil Elements
- Arc Chute components - Arc Quenching Chutes, Constrictor Plates
- Electric Furnace Spools, Hangers

Industry Sector: Insulators



Industry, Science and
Technology Canada

Industrie, Sciences et
Technologie Canada

Canada

Indepor Inc.

P.O. Box 1234
MEDICINE HAT, Alberta
T1A 7M9
Tel: (403) 528-2445
Fax: (403) 527-0075
Export/Marketing Contact:
Mr. Frank Weidel
President & G.M.

Indepor Inc., and its predecessor Independent Porcelain Co. Ltd. since 1975, is a manufacturer of electrical porcelain insulators. The company specializes in distribution transformer bushings, fuse cut-outs and specialty electrical porcelains; 5, 001 and guy wire strain insulators. It's customers include many of the North-American distribution transformer manufacturers.

Products include:

- Distribution transformer bushings
- Porcelain bodies for fuse cut-outs and lightning arresters
- Distribution type guy strain and spool insulators
- A variety of custom specialty electrical porcelains

Industry Sector: Insulators

K-Line Insulators Ltd.

50 Passmore Avenue
SCARBOROUGH, Ontario
M1V 2T1
Tel: (416) 292-2008
Fax: (416) 292-2094
Export/Marketing Contact:
Mr. A.J. Carreira

K-Line Insulators manufactures polymer (silicone & EPDM) insulators for voltage systems up to 230kV. Products include: Polymer suspension, guy strain, post-type insulators, interphase spacers, insulated live-line tools and RTV dispersion coatings.

Industry Sector: Insulators

Racal-Decca Canada Ltd., Insulators Division

71 Selby Road
BRAMPTON, Ontario
L6W 1K5
Tel: (416) 457-8720
Fax: (416) 457-2193
Export/Marketing Contact:
Mr. Patrick H.J. Warr
Manager-Marketing

Racal-Decca Canada Ltd. specializes in the design and manufacture of base and guy insulators for self supporting and guyline towers. Other insulator products manufactured in the Brampton, Ontario plant are air spaced and oil filled tower lighting transformers, static drain devices and feed thru bushings. Although these products are primarily aimed at the medium frequency radio antenna market, power utility companies also find the custom design and manufacturing capabilities useful for their special needs. The customer base is both national and international in nature with such prestigious customers, for example, as Transport Canada, Ontario Hydro, U.S. Navy and the British Broadcasting Company.

Industry Sector: Insulators

LIGHTING PRODUCTS

Amerace Ltd.

77 West Beaver Cr. Rd.
RICHMOND HILL, Ontario
L4B 3A7
Tel: (416) 882-8008
Fax: (416) 882-8014
Export/Marketing Contact:
Mr. W. Cook
President

The company manufactures airfield lighting isolating transformers and connector kits, and waterproof connector kits for streetlighting and other applications.

Industry Sector: Lighting Products (airport)

Appleton Electric Limited

750 Lawrence Street
CAMBRIDGE, Ontario
N3H 2N1
Tel: (519) 653-2581
Fax: (519) 653-5181
Export/Marketing Contact:
Mr. Mike Carroll
Sales manager

The company manufactures a broad range of lighting products including high intensity discharge and incandescent, for industrial use in both hazardous and non-hazardous locations. Electrical fittings, junction boxes, panel boards and industrial controls are also manufactured for hazardous locations. Also available are electrical fittings, lighting, controls and fixtures for marine applications.

Industry Sector: Lighting Products

Artcraft Electric Limited

8050 Torbram Road
BRAMALEA, Ontario
L6T 3T2
Tel: (416) 791-1551
Fax: (416) 791-7381
Export/Marketing Contact:
Mr. Howard S. Bernstein
V.P. Marketing

Artcraft Electric Limited has manufactured and imported residential lighting fixtures for over thirty-seven years. The Company's product lines include both indoor and outdoor lighting fixtures using incandescent, halogen and compact fluorescent lighting. Artcraft has manufacturing facilities in both Montreal and Toronto and Showrooms in Montreal, Toronto and Dallas. Since its inception, Artcraft and its highly trained staff have been dedicated to providing the finest lighting and using the highest engineered standards for safety and quality. Artcraft offers a large range of compact fluorescent and halogen fixtures (low voltage and regular line voltage) all of which offer more efficient use of lighting and energy consumption. In addition, the Company



produces a large range of luminaries employing standard incandescent bulbs.
Industry Sector: Lighting Products

Canterra Electronics International Inc.

16821-113 Avenue, 2nd Floor
EDMONTON, Alberta
T5M 2X2
Tel: (403) 486-3145
Fax: (403) 489-7670
Export/Marketing Contact:
Mr. Bruno Dobler
Chairman & C.E.O.

Founded in 1987 Canterra manufactures and distributes energy saving products for the lighting industry and control systems for industrial battery chargers. The "FRED" product* is an add-on device to core-coil ballasts which reduce power consumption up to 35%. It also doubles ballast life, extends lamp life and reduces AC loads. The Canterra Sinusoidal Electronic Ballast* is a high efficiency low harmonics product for the fluorescent fixture market incorporating the latest technology in lamp control and is dimmable. The "Charge Guard" is a microprocessor controlled retrofit system for industrial chargers which prolongs battery life and has diagnostic capabilities. Products are sold through agents and distributors to the entire spectrum of commercial and industrial users across Canada and the U.S.A.

Industry Sector: Lighting Products

Clevemont Industries Ltd.

8155 Larrey St.
ANJOU, Quebec
H1J 2L5
Tel: (514) 353-8760
Fax: (514) 353-2660
Export/Marketing Contact:
Mr. Edward Lenkov
President

Clevemont Industries under its trade name L'Image is a leading North American manufacturer and innovator of lighting products for commercial and residential

use. Amongst its diversified product lines are decorative, fluorescent, outdoor, track, low-voltage, energy efficient*, linear systems and a variety of other lighting products. The company maintains an R&D Department with the ability to do quotations, sophisticated lighting layouts and special lighting projects immediately upon request. The name L'Image has become synonymous with lighting innovation and the company numbers amongst its customer base the leading electrical distributors and wholesalers in North America.

Industry Sector: Lighting Products

Columbia Electric Inc.

148 Boyer Street
ST. ISIDORE (CO. LAPRAIRIE), Quebec
J0L 2A0
Tel: (514) 454-7561
Fax: (514) 454-4352
Export/Marketing Contact:
Mr. J. Landgraf

Columbia Electric Inc. is a designer and manufacturer of lighting fixtures since 1945. The company's product line includes lighting of all types for home or semi-commercial use, whether incandescent, fluorescent, halogen quartz, and energy saving lighting. Since it was founded, Columbia Electric has been dedicated to providing the finest lighting equipment possible.

Industry Sector: Lighting Products

Cooper Lighting, Division of Cooper Industries Inc.

5925 McLaughlin Road
MISSISSAUGA, Ontario
L5R 1B8
Tel: (416) 507-4000
Fax: (416) 568-7052
Export/Marketing Contact:
Mr. R. Lopes
Marketing Manager

The company manufacturers recessed, surface, Power Trac, fluorescent, roadway, outdoor floodlighting, sports lighting, parking lot, large area, and security

lighting products for the residential, commercial, institutional and industrial lighting markets in Canada.
Industry Sector: Lighting Products

Design Electrical Manufacturing

815 Gana Court
MISSISSAUGA, Ontario
L5S 1P2
Tel: (416) 670-8391
Fax: (416) 670-4616
1-800-668-5517

Export/Marketing Contact:
Mr. Peter Saccomanno
National Sales & Marketing Manager

Design Electrical Mfg., a Noma Company, is located in a new and modern manufacturing facility in Mississauga, Ontario. Design manufactures a wide range of Industrial and Commercial lighting products and markets a complete line of energy saving compact fluorescent fixtures.* The Rab product group sets the industry standard for the manufacture of cast aluminum boxes, garden lighting and explosion proof fixtures. Design products are represented by qualified lighting professionals coast to coast who are available to help design any lighting application. They are supported by dedicated factory, customer service, Engineering and Marketing teams who are always available for assistance.
Industry Sector: Lighting Products



Flexilume Canada

165 Steelcase Rd. East
MARKHAM, Ontario
L3R 1G1
Tel: (416) 507-4000
Fax: (416) 568-7040
Export/Marketing Contact:
Mr. Richard Gloster

Flexilume has manufactured fluorescent lighting products for the Canadian and International markets since 1981. A complete range of fluorescent lighting products are manufactured in Markham, Ontario using Canadian components, and fixture design capabilities. The latest in computerized fabrication techniques maximize productivity and supports large custom fabrication projects. Flexilume stocks commercial, industrial and institutional lighting products and offers design and consulting services for projects worldwide.

Industry Sector: Lighting Products

GTE Sylvania Canada Ltd.

2001 Drew Rd.
MISSISSAUGA, Ontario
L5S 1S4
Tel: (416) 673-6171
Fax: (416) 673-1413
Export/Marketing Contact:
Mr. P. Christie
Dir. Marketing and Sales

The company manufactures a complete line of lighting products; 1) fluorescent, incandescent, high intensity discharge, photographic and tungsten halogen lamps, 2) fluorescent fixtures for indoor use 3) H.I.D. fixtures for outdoor and indoor application and street lighting.

Industry Sector: Lighting Products

Holophane Canada Inc.

1620 Steeles Avenue East
BRAMPTON, Ontario
L6T 1A5
Tel: (416) 793-3111
Fax: (416) 793-9597
Export/Marketing Contact:
Mr. M. J. Barry

Holophane Canada was established in 1911, has plants in Brampton, Ontario and St-Hyacinthe, Quebec, and manufactures a range of outdoor, industrial and outdoor residential products* for the project market and energy efficient retrofit sector. Holophane also supplies the O.E.M. market with glass refractor components for streetlighting, plastic fluorescent lenses (diffusers), the utility markets with highway high mast and interchange systems, and lighting analysis is provided to engineers, architects, users, contractors, and distributors to assess, calculate, compare and improve lighting systems. All products sold are energy saving products.

Industry Sector: Lighting Products

Kaufel Group Ltd.

1811 Boul. Hymus
DORVAL, Quebec
H9P 1J5
Tel: (514) 685-2271
Fax: (514) 685-2394
Export/Marketing Contact:
Mr. Sam Rimoin
National Sales

Kaufel Group Ltd., through its subsidiaries, Emergi-Lite, Landmark and Panek, is a Canadian manufacturer of emergency lighting and standby power equipment; street and highway lighting fixtures; residential and commercial lighting fixtures; custom- designed interior and exterior lighting systems for buses, subways, trains and trolley; custom metal products including cabinets, stampings and components; and injection-molded plastic components. It sells its products mainly in Canada and the United States.

Industry Sector: Lighting

Keene-Widelite

455 Dobbie Drive
CAMBRIDGE, Ontario
N1R 5X9
Tel: (519) 623-8820
Fax: (519) 623-4435
Export/Marketing Contact:
Mr. Mickey Cooper
V.P. Intl. Sales

Keene-Widelite, one of four operating divisions of Canyte Inc., manufactures efficient, energy saving high intensity discharge (H.I.D.) lighting products for industrial and commercial markets. Product lines such as Keene, Widelite & Widelite Controls, offer the customer a wide selection in H.I.D. Lighting. Products include floodlights, wallcubes and dimmer controls. Keene-Widelite manufactures in Cambridge, Ontario and has sales offices in every major Canadian city coast to coast. The people at Keene-Widelite are committed to provide the best in service & products to meet or exceed customer needs.

Industry Sector: Lighting Products

Lightoller Canada Inc.

3015 Louis A. Arnos
ST-LACHINE, Quebec
H8T 1C4
Tel: (514) 636-0670
Fax: (514) 636-0460
Export/Marketing Contact:
M. R.M. Arseneault
V.P. Sales and Marketing

The company manufactures architectural indoor and outdoor lighting fixtures, consumer and commercial lighting, and incandescent, fluorescent and H.I.D. lighting fixtures.

Industry Sector: Lighting Products



Lumacell Incorporated

120 Nashdene Road
SCARBOROUGH, Ontario
M1V 2W3
Tel: (416) 292-9782
Fax: (416) 292-6769
Export/Marketing Contact:
Mr. David Rycroft
President

Lumacell Inc. is a leading Canadian manufacturer of emergency lighting, emergency power and exit sign products. Innovative engineering and highest level of product quality characterize Lumacell's products. Production facilities include a modern 50,000 sq.ft. plant in Scarborough, Ontario and a plant in Lachine, Quebec. Lumacell products are used for evacuation lighting in commercial, institutional and industrial applications. All use state-of-the-art charging technology and long life rechargeable batteries. Product lines include rechargeable emergency lighting battery units 6V, 12V, 24V output, inputs 120, 240, 277 or 347 V.A.C., and manufactured in a wide range of architectural models for finished commercial areas and heavy duty industrial styles; D.C. chargers and rectifiers with outputs of up to 100A; A.C. inverter systems consisting of charger, battery and inverters to provide up to 20 KVA of emergency A.C. power; *Exit signs with legends available in a variety of languages; exit signs are available with PL, LED or electroluminescent panels for low energy drain; *POWERFREE™ Self Luminous Exit Signs are available which require no power input or connection. Lumacell is extremely interested in developing international markets.

Industry Sector: Lighting Products

Lumec Inc.

618 Curt-Boivin
BOISBRIAND, Quebec
J7G 2A7
Tel: (514) 430-7040
Fax: (514) 430-1453
Export/Marketing Contact:
M. Alain Poudrette

Lumec specializes in the design and manufacture of high quality decorative and functional luminaires for the municipal and commercial sectors. The company has become a leader in Canada in the manufacture of deco-functional landscape and area lighting in both contemporary and traditional styles. The products include sodium vapour lamps to replace mercury lamps used by municipalities. With over 100 employees, Lumec is well positioned in the Canadian market, having established itself in very large projects throughout the country. Lumec now exports 25% of its production to its expanding United States market. Lumec's lighting products can also be found in Algeria, Singapore, and Hong Kong.

Industry Sector: Lighting Products

Luminac Inc.

9125, 22E. Aven. Industrial Park
ST-GEORGES EAST, Quebec
G5Y 6V8
Tel: (418) 228-2981
Fax: (418) 228-2981
Export/Marketing Contact:
M. Denis Goulet
Export Manager

Luminac has been manufacturing halogen lighting fixtures* since 1986, with low voltage energy conservation features. Luminac also manufactures energy saving fluorescent and sodium fixtures, including sodium commercial lighting. Luminac is presently expanding into the U.S. export markets.

Industry Sector: Lighting Products
(Lighting Fixtures)

Maxilite Mfg. Ltd.

3008 Spring St.
PORT MOODY, B.C.
V3H 1Z8
Tel: (604) 461-4747
Fax: (604) 461-5747
Export/Marketing Contact:
Mr. Max Cohen
President

Maxilite specialises in the manufacture of quality residential lighting fixtures, using wood, glass and metal. In business for 14 years, Maxilite has concentrated on a small but unique line of products which are manufactured in-house. A recent expansion into *energy saving lighting fixtures offers a variety of styles to choose from.

Industry Sector: Lighting Products

Metalumen Manufacturing Inc.

570 Southgate Drive, P.O. Box 1779
GUELPH, Ontario
N1H 6Z9
Tel: (519) 822-4381
Fax: (519) 822-4589
Export/Marketing Contact:
Ms. Casey Goetz
Manager - Sales & Eng.

Metalumen Manufacturing Inc. designs and manufactures quality architectural lighting systems and special application lighting fixtures. The company's lighting products can be found in hospitals, institutions, mines, churches, corporations, parks and along the roadside.

Quality of workmanship is excellent. State-of-the-art manufacturing techniques, extensive product design and development are a way of life at Metalumen. All products CSA and UL approved.

Customer service, superior design and quality workmanship - that's Metalumen Manufacturing Inc.

Products include:

Custom Lighting Fixtures, Exterior Building Lighting, Interior Lighting, ambient and direct, Fluorescent Fixtures, Incandescent Fixtures, Mercury Fixtures,



High Intensity Fixtures, Metal Halide Fixtures, Sodium Fixtures, Recessed Lighting, Track Lighting Systems, Air Handling Track Lighting, Track Lighting Fixtures, relocatable, Tubular Lighting Systems, Lighting Bollards, Street Lighting
Industry Sector: Lighting Products (Lighting Fixtures)

Peerless Electric Co. Ltd.

9145, rue Boivin
LASALLE, Quebec
H8R 2E5
Tel: (514) 595-1671
Fax: (514) 595-4411
Export/Marketing Contact:
Mr. Bert Chew
Marketing Manager

Peerless, a leading Canadian manufacturer of fluorescent luminaries, is celebrating over fifty years of service to the lighting industry. Peerless specializes in computer design concepts and custom built luminaries in keeping pace with changing industry requirements and lighting trends. Peerless, with manufacturing facilities in both Montreal and Toronto, employs 260 people producing high quality products for the industry.
Industry Sector: Lighting Products (Lighting Fixtures)

Philips Electronics Ltd.

601 Milner Avenue
SCARBOROUGH, Ontario
M1B 1M8
Tel: (416) 292-5161
Fax: (416) 297-1019
Export/Marketing Contact:
Mr. Nick Wester
Vice-President Corporate Affairs

Philips Electronics Ltd. is the Canadian arm of the worldwide Philips group of companies which have diversified operations in the electrical and electronics sector. In Canada, Philips has a PC manufacturing centre in Montreal and produces electronic displays in Scarborough, light bulbs in London and ballasts in St. Jerome, Quebec. Sales

activities include audio and video products, lighting, household and personal care appliances, hearing instruments, information systems and office automation products, components for electronics manufacturers and scientific and industrial equipment, Polygram Inc. and Philips Medical Systems are associated companies. Electrical products include small kitchen appliances, shavers, personal care products, incandescent bulbs, fluorescent tubes, high intensity discharge lighting, specialty lighting* and ballasts.
Industry Sector: Lighting Products

Progressive Lighting Systems Mfg. Ltd.

100 Braid Street
NEW WESTMINSTER, B.C.
V3L 3P4
Tel: (604) 525-8484
Fax: (604) 525-2020
Export/Marketing Contact:
Mr. Gordon Bevington

Progressive Lighting Systems Mfg. Ltd. has been supplying lighting products since 1924. A full service facility complete with painting, metal, machine and woodworking shops. The company supplies the retail trade and also specializes in custom made fixtures to order. Product line includes chandeliers, wall, ceiling, track and bath units and compact fluorescent fixtures.
Industry Sector: Lighting Products (Lighting Fixtures)

Sherman Lighting Ltd.

4490 Chesswood Drive, Unit 3
DOWNSVIEW, Ontario
M3J 2B9
Tel: (416) 636-9881
Fax: (416) 636-8914
Export/Marketing Contact:
Mr. David Sherman
Export Manager

Sherman Lighting Ltd. is a manufacturer of decorative lighting fixtures for use in residential and commercial applications. Energy saving lighting has been a recent addition to the line, and is growing

rapidly. The company also handles custom applications of all types.
Industry Sector: Lighting Products (Lighting Fixtures)

Snoc Inc.

17200 rue Centrale
SAINT-HYACINTHE, Quebec
J2T 4J7
Tel: (514) 774-5238
Fax: (514) 774-1954
Export/Marketing Contact:
M. C. Courmoyer

Snoc Inc. is a manufacturer of cast aluminium residential lighting.
Industry Sector: Lighting Products

SSF Industries Inc.

Box 32
ABERNETHY, Sask.
S0A 0A0
Tel: (306) 333-2288
Fax: (306) 333-2286
Export/Marketing Contact:
Mr. Barry Englot
President

SSF developed and now manufactures rechargeable vehicle lights under the brandname of "translight", which uses a 12 volt system to charge a high quality Lead-Acid cell. This unit has a continuous use of 3 hrs. SSF is a limited company established in 1987.
Industry Sector: Lighting Products (Vehicle)



Industry, Science and
Technology Canada

Industrie, Sciences et
Technologie Canada


Canada

Thomas Lighting Ltd.

189 Bullock Drive
MARKHAM, Ontario
L3P 1W4

Tel: (416) 294-9570
Fax: (416) 294-9811

Export/Marketing Contact:
Mr. Will Pugh

Thomas Lighting Ltd. manufactures residential, commercial and industrial lighting fixtures.

Industry Sector: Lighting Products

TIR Systems Ltd.

3935 East 2nd Ave.
BURNABY, B.C.
V5C 3W9

Tel: (604) 294-8477
Fax: (604) 294-3733

Export/Marketing Contact:
Mr. John Eaves
Vice President, Agent Operations

TIR Systems Ltd. has developed a unique linear lighting system* called Light Pipe™, which they manufacture in Canada and market internationally. Unique design characteristics enable the linear light emitting light guide to separate from the light source, making it possible to distribute the light where it is required and locate the luminaries where they can be easily maintained. TIR's patented Light Pipe™ now accents the highest edges of Liberty I and II skyscrapers in Philadelphia, and sets off the distinctive pyramid atop Europe's tallest building, the 82 storey Messeturm in Frankfurt. Over 400 new MacDonald's restaurants across the U.S. use the Light Pipe™ technology in their illuminated roofbeams. TIR's Light Pipe™ offers up to 88' of unbroken linear light which is emitted uniformly over the entire length. The Light Pipe™ eliminates the problems created by conventional lighting methods and offers many other advantages.

Industry Sector: Lighting Products

TriVar Inc.

7625 Kimbel St. #22
MISSISSAUGA, Ontario
L5S 1A9

Tel: (416) 671-1744
Fax: (416) 671-8709

Export/Marketing Contact:
Ms. Margaret Gibson

Established in 1980, TriVar Inc. develops and manufactures high-quality energy-efficient solid state electronic power controls and lighting devices. Its customers include major appliance manufacturers, lighting management companies, and retail stores in Canada, the United States and England. TriVar product lines include electronic fluorescent ballasts, motor speed control, lamp touch controls, fluorescent power reducers, and custom-designed and manufactured electric devices. TriVar products are manufactured at its automated facility in Mississauga, Ontario. TriVar is dedicated to the ongoing development of competitive, energy-saving products.

Industry Sector: Lighting Products

Unilight Limited

5530 St. Patrick Street
MONTREAL, Quebec
H4E 1A8

Tel: (514) 769-1533
Fax: (514) 769-8858

Export/Marketing Contact:
Mr. Jerry J. Hruby-Holy
President

Unilight began in 1955 as designers and manufacturers of decorative, incandescent lighting fixtures and chandeliers - custom made and residential. Unilight is export oriented and more than 60 % of our products are sold outside Canada. With a staff highly skilled employees, Unilight has a reputation of capability to fill any lighting requirement imaginable - on time and/or budget. The Design department is equipped with CAD and the uniquely-crafted designs have become known throughout the industry. Unilight has produced many one-of-a-kind fixtures for

special applications in hotels, embassy, palaces, cathedrals, synagogues and office buildings around the globe. In the year of 1990 the company was named by Arthur Andersen and Co. as one of the 50 medium sized with management excellence.

Products range from small one-light wall brackets to the 12-ton chandelier being 32 ft. in diameter, decorative lighting fixtures and chandeliers, as well as contemporary designs equipped with PL (fluorescent) light bulbs. The custom made fixtures are based on the customer's specifications regardless of whether the components are made of crystal, Murano glass, wrought iron or wood or others. Finishes and sizes vary according to the client's wishes. In the residential division Unilight offers a variety of designs from classical to contemporary - all consisting of guaranteed top quality material and craftsmanship.

Industry Sector: Lighting Products

Visioneering Corp.

24 Ward Street
TORONTO, Ontario
M6H 4A6

Tel: (416) 534-7991
Fax: (416) 531-4130

Export/Marketing Contact:
Mr. Antony DiMatteo

Visioneering Corp. has been manufacturing in Toronto for over 29 years. A complete range of energy saving products are available which can be incorporated into existing or new fixtures including lamps*, ballasts* and high reflective aluminum reflectors*.

Visioneering is a wholly Canadian company capable of supplying a complete line of fluorescent, H.I.D. and incandescent luminaries for the growing needs of today's lighting market.

Industry Sector: Lighting Products



Industry, Science and Technology Canada
Industrie, Sciences et Technologies Canada


Canada

York-Lithonia Lighting Company

1100 - 50th Avenue
LACHINE, Quebec
H8T 2V3

Tel: (514) 639-3571
Fax: (514) 639-3570

Export/Marketing Contact:
Mr. William Astary

York-Lithonia offers an expanded product line covering most segments of the commercial and industrial lighting market. Being a subsidiary of the world's largest manufacturer of lighting equipment, Lithonia Lighting, York-Lithonia now offers on the Canadian market - in addition to its well known York commercial and industrial fluorescent luminaries - indoor and outdoor, HID and incandescent lighting fixtures, modular wiring systems, architectural lighting, emergency lighting equipment and lighting control systems. The company's goal is to provide the most extensive product offering available from a single manufacturer and to become the leading supplier of lighting equipment in Canada. Products include:

- Commercial, industrial and decorative fluorescent lighting fixtures
- Advantage Downlighting
- Advantage Track
- Industrial/outdoor lighting
- Emergency lighting
- HID (High Intensity Discharge) lighting

Industry Sector: Lighting Products

MEASURING AND TESTING DEVICES

Armstrong Monitoring Corporation

215 Colonnade Road South
NEPEAN, Ontario
K2E 7K3

Tel: (613) 225-9531
Fax: (613) 225-6965

Export/Marketing Contact:
Mr. Yves Grandmaitre

Since its inception in 1981, The Armstrong Monitoring Corporation has experienced rapid growth and acceptance as a prime manufacturer of hazardous gas and vapour monitoring systems. A diverse product line allows Armstrong to meet gas monitoring requirements for a wide range of industries, from heavy industrial, to commercial, to institutional. Designed to provide choice and flexibility to the customer the AMC line offers portable and hand held units, fixed multipoint systems in rack or wallmount configurations, and 4-20 mA sensor/transmitter units which can be interfaced with building management systems or data acquisition equipment. A Technical Services Group comprised of highly skilled technical specialists whose only measure of success is customer satisfaction, is available for after sales service.

Products include:

- *Fixed single point gas detectors
- *Fixed multi-point gas detectors
- *Fixed hazardous gas monitoring systems
- *Single or dual channel rack mount controllers
- *Ten channel rack mount controllers
- *Portable three function continuous gas detectors
- *Portable hand held hazardous gas detectors
- *4-20 mA linearized output sensor/transmitter units
- *Leak detection systems

Industry Sector: Measuring and Testing Devices

Bach-Simpson Limited

1255 Brydges Street
LONDON, Ontario
N5W 2C2

Tel: (519) 452-3200
Fax: (519) 452-3165

Export/Marketing Contact:
Mr. Victor Carriere

Bach-Simpson Ltd. was founded in 1946 with the objective of manufacturing electrical test equipment. Today it is one of Canada's largest manufacturers of fixed and portable test equipment. Bach-Simpson has subsidiary operations in the U.K. and in the U.S.A. The head office and main manufacturing plant are in London, Ontario. The product range includes wattmeters, voltmeters, ammeters and frequency meters. Accessories include current transformers and shunts. Also available is a wide range of portable test equipment including such items as 'clamp on' ammeters and chart recorders. Industry Sector: Measuring and Testing Devices

Broman Engineering Ltd.

1495 Frances Street
VANCOUVER, B.C.
V5L 1Z1

Tel: (604) 254-6311
Fax: (604) 254-6115

Export/Marketing Contact:
Mr. Ralph Bristow

Broman Engineering is primarily a manufacturer of electrical test equipment for the heavy electrical industry. Typical products include contact resistance test sets, portable hipot sets, and digital milliohmmeters which are sold to electric utilities across Canada and the United States.

Industry Sector: Measuring and Testing Equipment



Industry, Science and
Technology Canada

Industrie, Sciences et
Technologie Canada

Canada

Cable Test International Ltd.

951 Denison St. East, Unit 21
MARKHAM, Ontario
L3R 3W9
Tel: (416) 475-2607
Fax: (416) 475-2609
Export/Marketing Contact:
Mr. Arthur Boas
President

The company manufactures testing equipment for wire and cable.
Industry Sector: Measuring and Testing Devices

Canadian Shunt Industries Ltd.

50 Bullock Drive, Unit 5
MARKHAM, Ontario
L3P 3P2
Tel: (416) 294-5274
Fax: (416) 294-6096
Export/Marketing Contact:
Mr. E. R. Milanczak
President

CSI has been a manufacturer in Canada since 1970. The company manufactures knife switches ranging from 30 Amperes to 10,000 Amperes and DC Ammeter Shunts with ratings from 1 Ampere to 30,000 Amperes with various outputs. CSI currently exports to the U.S.A.
Industry Sector: Measuring and Testing Devices

Criterion Instruments Ltd.

30 Progress Ave.
SCARBOROUGH, Ontario
M1P 4W8
Tel: (416) 299-6666
Fax: (416) 299-8398
Export/Marketing Contact:
Mr. Peter Soma
General Manager

Criterion Instruments Limited, is an independent R & D organization devoted to measurement, control and testing in nearly all fields of electronics excepting high-frequency communications. Criterion is a manufacturer of high quality electronic equipment for public utilities and industrial applications and also has a special department for R & D in electronics and some related physical fields.
Industry Sector: Measuring and Testing Devices

Electrical Testing Instruments Ltd.

3015 Kennedy Road, Unit 12
SCARBOROUGH, Ontario
M1V 1E7
Tel: (416) 292-8181
Fax: (416) 292-8188
Export/Marketing Contact:
Mr. Egon S. Manthey
President

Power, Electricity, and High Voltage: A volatile combination - one that commands the highest respect from those who work with it everyday on the job. Electrical Testing Instruments Ltd. understands the inherent danger. For nearly two decades, ETI's goal has been to design and manufacture technologically advanced electrical testing equipment serving major electrical utilities, leading industries and government testing laboratories worldwide. ETI offers exceptional accuracy and precision in a complete line of standard and custom-built products which have proven rugged and dependable under strict laboratory testing and extreme conditions in the field. ETI's main objective is to

constantly improve their equipment, applying the latest innovations in technology to best serve their customers. Products include:
-Contact resistance test sets
-Transformer ratiometer
-Capacitance-dissipation factor bridge
-Relay test sets
-High voltage AC/DC test sets
-Insulation resistance testers
-High current test sets
-Zinc-oxide surge arrester test set
Industry Sector: Measuring and Testing Devices

FES International Ltd.

60 Ironside Crescent, Unit # 9
SCARBOROUGH, Ontario
M1X 1G4
Tel: (416) 321-1988
Fax: (416) 321-1991
Export/Marketing Contact:
Mr. John Saunders
President

FES International, founded in 1986, offers the international power sector Partial Discharge Analyser (PDA) products and engineering services which are used for on-line monitoring of hydrogenerator, turbogenerator and motor high voltage stator insulation systems. Installed on more than 500 machines throughout the world, PDA monitoring has become an industry standard for on-line evaluation of stator insulation. PDA tests provide maintenance personnel with a reliable indication of the location, level and trend of insulation deterioration, as well as an early warning of slot discharge, internal voids, delamination, and loose windings.
Industry Sector: Measuring and Testing Devices



Geotherm Inc.

272 Davis Dr., R.R. #1
UXBRIDGE, Ontario
L9P 1R1

Tel: (416) 473-3306

Fax: (416) 473-3334

Export/Marketing Contact:

Mr. Deepak Parmar
President

Manufacturer of state-of-the-art instruments for measurement of thermal properties of soil, rock, insulation and other man-made and natural materials including oils, lubricants etc., and consultation and laboratory testing services for electric utilities in Canada, USA and overseas for the past fourteen years.

Specialist services include formulation, testing and evaluation of corrective thermal backfills for underground and submarine power cables (high voltage transmission and distribution)

Products include:

-Thermal Property Analyzer, custom-built thermal probes and accessories.

-Custom-built temperature sensors to cover a wide range of application, temperature regime and resolution

Industry Sector: Measuring and Testing Devices

Hi-Test Detection Instruments Ltd.

1099 Wolfe Avenue
VANCOUVER, B.C.
V6H 1V9

Tel: (604) 736-2848

Fax: (604) 736-2848

Export/Marketing Contact:

Mr. John A. Farqshar
President

Hi-Test Detection manufactures and sells the Hi-Test Insulator Tester and the Hi-Test Surge Arrester Tester. The former is used to test insulators for nonvisible defects and can be used with the line energized or de-energized. It can be used at any distribution or transmission voltage. The latter is used to test distribution and low level station class surge arresters for

partial shorts. Hi-Test Detection also maintains an on-going R&D program examining new test products for the electrical utility industry. Hi-Test has particular expertise in the design and development of portable high voltage test equipment. The products are used by electrical utilities of all sizes from the smallest municipal to the largest state owned utility around the world.

Products include:

Hi-Test Insulator Tester, Hi-Test Surge Arrester Tester. Those in development are: 30 KVAC Hi-Pot, 50 KVAC Hi-Pot, Surge Arrester Tester to test Substation class arresters and Insulator Contamination Monitor to provide information on when to wash insulators to avoid flashover.

Industry Sector: Measuring and Testing Devices

Iris Power Engineering

1550 Meyerside Drive, Unit 1
MISSISSAUGA, Ontario
L5T 1V4

Tel: (416) 564-4977

Fax: (416) 564-4979

Export/Marketing Contact:

Mr. Greg C. Stone
Director - Marketing

Iris Power Engineering was established by four utility researchers to commercialize innovations developed under multi-million dollar research projects by Canadian power utilities and American Electric Power Research Institute. Iris manufactures and sells patented sensors, instruments and expert system software for monitoring the condition of the electrical windings in generators and large motors. These products permit power utilities and industries using large motors and generators to implement predictive maintenance programs.

Products include:

MICAA- The Machine Insulation Condition Assessment Advisor is a sophisticated expert system which runs on a PC to help maintenance personnel determine if motors and generators are in good condition

SSC- The Stator Slot Couplers are patented sensors which detect partial discharges in large turbine generators
TGA- The Turbine Generator Analyzer is a sophisticated electronic instrument which works with the SSCs to determine the condition of a turbine generator's stator winding, without requiring a service interruption

Industry Sector: Measuring and Testing Devices

Lisle-Metrix Ltd.

49 Sheffield St.
TORONTO, Ontario
M6M 3E5

Tel: (416) 249-9151

Fax: (416) 249-2952

Export/Marketing Contact:

Mr. G.F. Crossman
Vice President

Founded in 1958, Lisle-Metrix is a manufacturer and distributor of process equipment and controls for the industrial and municipal fields. The company specializes in fields of water quality analyzers, flow and level sensors and the following electrical products:

Annunciators, Timers, Counters, Proximity Sensors, and Switching Amplifiers

Industry Sector: Measuring and Testing Devices

Milltronics

P.O. Box 4225, 730 The Kingsway
PETERBOROUGH, Ontario
K9J 7B1

Tel: (705) 745-2431

Fax: (705) 745-0414

Export/Marketing Contact:

Mr. Glen W. Sluggett
International Sales

Founded in 1954, Milltronics has developed a wide range of process measurement devices. These include non-contacting, ultrasonic systems; transducers; weighting and feeding equipment; and motion sensing devices. Milltronics has achieved an enviable reputation based upon the reliability of its equipment, which



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Technologie Canada

Canada

is designed and manufactured in its Peterborough plant. A dedicated Research and Development programme has provided the foundation for company leadership in the development of ultrasonic technology. The mining, quarrying, chemical, cement, grain and petroleum industries provide markets for Milltronics highly successful line of monitoring, weighing and feeding equipment, which includes belt scales, solids flowmeter and weighfeeders. Milltronics' motion sensing devices are used extensively for protection of equipment in the mining, cement and grain industries, where the company continues its long established presence. The organization has over three hundred employees and worldwide representation, with sales offices across Canada, a U.S. branch in Arlington, Texas; a European headquarters in Bromsgrove, England; two offices in France.

Industry Sector: Measuring and Testing Devices

Morgan Schaffer Corp.

5110 Courtnai Ave.
MONTREAL, Quebec
H3W 1A7

Tel: (514) 739-1967

Fax: (514) 739-0434

Export/Marketing Contact:

Mr. Stuart Kishner

A commercial laboratory which offers a comprehensive transformer oil testing service. Testing services include:

- 1) Dissolved fault gas analysis (now a ASTM standard)
- 2) Transformer oil inhibitor analysis
- 3) PCB analysis of transformer oil and other wastes
- 4) Dissolved moisture in oil
- 5) Standard oil test (dielectric, Acidity, IFT, etc...)

Morgan Schaffer Corp. recently introduced a new technology, (anti-oxidant analysis of transformer oils) which could extend useful life of transformer oils by triple that of normal used methods.

Industry Sector: Measuring and Testing Services

Multi-AMP Canada Ltd.

180 Middlefield Road.
SCARBOROUGH, Ontario
M1S 4M6

Tel: (416) 298-6770

Fax: (416) 298-7214

Export/Marketing Contact:

Mr. Vince Oppedisano
Sales Manager

Established in 1951, Multi-AMP Corporation pioneered the electrical test industry with the manufacturing of a portable relay test set. To date Multi-AMP offers over 120 different products widely used in the electrical industry, with manufacturing plants in Dallas & Toronto. Multi-AMP institute, the training division, has taught more than 50,000 technicians and engineers the proper methods of inspection & preventative maintenance through performance based courses.

Products include:

ALFA-10.12kV Automatic insulation power factor test set

MTB-Watt hour meter test board (10 station, automatic)

SR-90-Universal Protective relay test set

BGL-battery ground fault locator

Training-customized on-site courses & open enrolment classes

EPOCH-automated relay test equipment current breaker test sets

Industry Sector: Measuring and Testing Devices

Power Measurement Ltd.

6703 Rajpur Place
VICTORIA, British Columbia
V8X 3X1

Tel: (604) 652-5118

Fax: (604) 652-0411

Export/Marketing Contact:

Mr. William I. McMillan
General Manager

Power Measurement Ltd. is a Canadian company which has been designing and manufacturing advanced power monitoring systems and components since 1969. PML introduced the first microprocessor based 3-phase power meter in 1984, and has

since been involved in providing comprehensive, cost-effective Supervisory Control And Data Acquisition systems to the institutional, commercial, industrial, and small utility customer. PML products have found success around the globe in applications ranging from manufacturing plants, mills, and building complexes to power utilities and co-generation facilities. Products include:

M-SCADA: PC-based Supervisory Control And Data Acquisition system for industrial, commercial, and utility power substations and systems. Extensive data display, alarm detection, and event, historical and min/max data logging capabilities. Waveform capture and power quality analysis provides simultaneous multiple waveform display %THD indication, and histogram of harmonic content. Compatible with all PML 3000 series instrumentation.

3300 ACM Low Cost Digital Power

Meter: Compact, economical meter can replace four or more analog meters and selector switches. Standard measurements: 3-phase Volts and Amps, KW, KWH.

Many optional measurements, including: KVAR, KVARH, Freq., PF and min/max and demand on all values. Simple installation. Communications port. Available without display module for "power transducer" applications.

3710 ACM Full-Featured Digital Power

Meter: High accuracy, 3-phase Volts (L-L, L-N) Amps, KW, KWH, KVAR, KVARH, KVA, KW & Amps Demand, PF, Freq, and Neutral or Ground Current measurement.

Waveform capture capabilities to 32nd harmonic on all voltage and current inputs. On-board data logging. Status inputs. On-board relays for set point control. Communications

3750 PDC Power Demand Controller:

Reduces electrical costs through automated demand control. Monitors energy consumption, calculates load trends, predicts power used by end of demand period, alerts operators of pending peaks. On-board relays perform load shedding or backup generator control actions to prevent setting new peak demand levels. On-board data logging. Communications.*

3800 Mini RTU: Interfaces directly to industry standard transducer/thermocouple devices. Display levels, pressures, temperatures etc. Four status/counter



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Industrie, Sciences et Technologies Canada

Canada

inputs to monitor positioning, flow rates, RPM etc. On-board relays for setpoint control. User-definable labels and scaling. On-board data logging. Communications.
Industry Sector: Measuring and Testing Devices

Promac Inc.

1375 Morningside Avenue
SCARBOROUGH, Ontario
M1B 3C5

Tel: (416) 284-8440

Fax: (416) 284-8147

Export/Marketing Contact:

Mr. P. Whiteside

Export Sales Manager

Promac Inc. is a designer and manufacturer of high technology state-of-the-art electrical/instrument type products for use in industrial applications.

Products include:

: Series of highly accurate micro processor based Process Instrument Calibration and Test equipment, this includes a newly developed Computer Aided Calibrator Package called The "MasterCAL". All calibrators are traceable to NIST (NBS) standards.

: Wide range of 2 and 4 wire Signal Transmitters, Converters and Alarm trips including a series of "SMART" Universal Transmitters and Converters that can be user programmed.

: "MicroComet" series of Flow Computers including Energy Flow and

: "Global" and "Livewire" Telemetry equipment for Data Transmission and Acquisition.

Promac products are exported through a wide network of distributors to the USA, Europe and many countries in the Middle East and Pacific rim.

Product service centres have been established in North America, Europe and Australia.

Promac Inc. is a wholly owned subsidiary of Internatio-Muller by Rotterdam, Holland.

*Promac Trademarks

Industry Sector: Measuring and Testing Devices

Sci-Tec Instrument Inc.

1526 Fletcher Road
SASKATOON, Sask.
S7M 5M1

Tel: (306) 934-0101

Fax: (306) 978-2339

Export/Marketing Contact:

Mr. Dale Janzen

Director of Marketing

Sci-Tec Instruments Inc. manufactures the following products:

1) "Hilda" high voltage line data acquisition system, used by electrical utilities to measure vibration in power lines. 2) "Brewer Spectrophotometer" used by scientists to measure atmospheric ozone and UVB for environmental studies, and

3) "Petro TAG" automated tank gauging systems, used for inventory control in fuel storage tanks. Sci-Tec's products are exported for utility use around the world.

Industry Sector: Measuring and Testing Devices

Stephens Analytical, Inc.

2750 Brabant Marineau
MONTREAL, Quebec
H4S 1L1

Tel: (514) 332-1230

Fax: (514) 335-6566

Export/Marketing Contact:

Mr. Alan Lee

President

Stephens Analytical, Inc. manufactures hygrometers (dew point meters or moisture analyzers) incorporating a silicon chip as the sensing element. This new generation of moisture analyzers has eclipsed older technologies and revised the standards for rapid response, accuracy, freedom from drift and resistance to contamination. The hygrometers are sold to electrical utilities throughout North and South America. Stephens Analytical, Inc. also operates the only Laboratory accredited by the Standards Council of Canada specifically for moisture analyzer calibration.

Industry Sector: Measuring and Testing Devices

Syprotec Inc.

179 Brunswick Blvd.
POINTE-CLAIRE, Quebec
H9R 5N2

Tel: (514) 694-3637

Fax: (514) 694-9245

Export/Marketing Contact:

M. Paul-Emile Labreche

Founded in 1975, Syprotec specializes in the development, manufacturing and worldwide marketing of analyzers and techniques dedicated to the detection, monitoring and control of failure conditions in oil-filled electrical equipment. The Syprotec products are essential elements in predictive maintenance programs and have prevented failures of critical power systems components. The HYDRAN 103B is a portable, fully automated and battery operated instrument dedicated to the detection and measurement of dissolved combustible gases in transformer oil. It is used in the field or laboratory for the early detection of a fault condition. It is also used to monitor new, recently serviced and chronically overloaded oil filled electrical equipment. The HYDRAN 201R is an early warning device and to detect developing fault conditions that will potentially lead to equipment failure. The HYDRAN 201R is easily mounted on oil-filled electrical equipment for real-time continuous monitoring. AQUAOIL instruments and sensors monitor and detect the evolution of moisture in dielectric liquids. The portable AQUAOIL 100 is used in the field or the laboratory to measure the moisture content in a grab sample, and the AQUAOIL 200 is mounted on a transformer for the continuous monitoring of moisture in oil.

Industry Sector: Measuring and Testing Devices



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Technologie Canada

Canada

T.D. Micronic Inc.

#205 13395 76th Avenue
SURREY, British Columbia
V3W 2V8
Tel: (604) 596-1612
Fax: (604) 594-9193
Export/Marketing Contact:
Mr. D. Sawney, P.Eng.

T.D. Micronic has been manufacturing electronic components since 1979. T.D. Micronic's head office is in Surrey, B.C. with a sales office in Calgary. T.D. Micronic manufactures conveyor belt scales, crane overload systems and carbon monoxide monitors*. The carbon monoxide monitor promotes energy savings by use in parking garages where the exhaust fans only operate when cars are running. Hydro rebates can be obtained using this item.
Industry Sector: Measuring and Testing Devices

Teston Gauge Limited

3325 North Service Road
BURLINGTON, Ontario
L7N 3G2
Tel: (416) 335-7198
Fax: (416) 335-3294
Export/Marketing Contact:
Mr. E.M. Spencer
Vice President

Teston Gauge Limited was established in 1962 to serve the needs of the power transformer manufacturing industry for transformer instrumentation. The company's product line includes discreet temperature indicators for both liquid and winding temperature indication and a winding control system, using winding temperature simulation techniques. The company also manufactures a line of liquid level gauges as well as special temperature indicators for large electrical motors, etc. Teston Gauge, since its inception, has been dedicated to providing superior products and service to its worldwide customer base.
Industry Sector: Measuring and Testing Devices

Thermo Electric (Canada) Limited

12 Rutherford Road S.
BRAMPTON, Ontario
L6W 3J2
Tel: (416) 451-0813
Fax: (416) 451-4606
Export/Marketing Contact:
Mr. Eugene Dudar

Thermo Electric has been successfully meeting the temperature measurement and process control needs of the Canadian Industry for over 37 years. World wide the company employs more than 400 people with major manufacturing facilities in Ontario, Alberta, New Jersey and the Netherlands. Temperature sensors include industrial and miniature thermocouples and RTD's, thermowells and protection tubes, nuclear grade thermocouples and RTD's, multicouples and downhole thermocouples, and custom engineered temperature sensors. Wire and cable products include: regular and special grade thermocouple wire and cable, extension thermocouple wire and cable, high temperature wire and cable, copper instrument wire and cable, and tray cable. Instrumentation includes digital/analog temperature and process indicators, portable digital temperature indicators, multifunction indicator/calibrators, programmable recorders, controllers, hand held data loggers, transmitters, and infra red sensors.
Industry Sector: Measuring and Testing Devices

Vibro-Meter Inc.

2115, boulevard Fernand-Lafontaine
LONGUEUIL, Quebec
J4G 9Z7
Tel: (514) 646-2157
Fax: (514) 646-2164
Export/Marketing Contact:
M. Marc R. Bissonnette
Sales Representative

Vibro-Meter Inc. specializes in dynamic monitoring systems for large rotating machinery. At its plant in Longueuil, the company manufactures and develops the high technology electronics and software incorporated in every product sold. Vibro-Meter also offers service, technical support and installation. More than a hundred systems have been sold to prestigious companies such as Hydro-Quebec, Ontario Hydro (Canada), New York Power Authority (United States), Ansaldo (Italy), Toshiba (Japan), Comision Federal de Electricidad (Mexico), EDF (France) and Ministry of Water Resources (P.R. of China).

The product list consists of: The Air Gap Monitoring System (AGMS); its capacitive technology allows very accurate dynamic measurements of rotor-stator air gaps under any operating condition. The Stator Bar Vibration System, using the same capacitive technology, measures the vibration of the bar in the stator core causing wear of its insulation. The Zero Outage On-line Monitoring (ZOOM) system is a complete on-line monitoring tool for rotating machine performance analysis; its open architecture allows the user to configure the system with any combination of parameter measurements according to the machine. The HydroMax system is an efficiency management tool for hydroelectric generators.
Industry Sector: Measuring and Testing Devices



Wodex Technology Inc.

95 Glen Cameron Road
Thornhill, Ontario
L3T 1N8
Tel: (416) 889-4750
Fax: (416) 889-4399
Export/Marketing Contact:
Mr. W.E. O'Neil
President

The company manufactures electrical measurement systems; voltage, current, watt, var, Q, frequency, and power factor transducers; limit alarm modules, circuit breaker control modules, precision timers, UPS battery chargers, invertors, and ground fault detectors.

Industry Sector: Measuring and Testing Devices

PANELS

BEL Products Inc.

6868 Maurice-Duplessis Blvd.
MONTREAL, Ontario
H1G 1Z6
Tel: (514) 327-2800
Fax: (514) 327-3250
Export/Marketing Contact:
Mr. Norman Belenger
Sales Director

Since its foundation in 1964, BEL Products has been dedicated to providing the finest electrical housing and distribution enclosures using the finest materials available. Its offices and manufacturing facilities in Montreal, Quebec and Mississauga, Ontario turn out a variety of multiple size enclosures that will suit any commercial or industrial application. BEL products is also highly renowned for its flexibility in making custom enclosures, built exactly to the customer's specifications and needs.

Industry Sector: Panels

Canadian Process & Control Ltd.

3020 Spring Street
PORT MOODY, B.C.
V3H 1Z8
Tel: (604) 461-4547
Fax: (604) 461-2575
Export/Marketing Contact:
Mr. Michael J. Hinman

Canadian Process & Control Ltd. has manufactured control panels and consoles for the industrial market for 25 years, specializing in PLC Cabinets (programmable logic controllers), Electrical Panels, Electronic Consoles and also Pneumatic & Hydraulic Controls. They also install instrument systems in plants (Pulp & Paper Mills, Breweries, Mines and Petrochemical Refineries) through the U.S.A. and Canada.

Industry Sector: Panels

Evans Consoles Inc.

2080 - 21 Street NE
CALGARY, Alberta
T2E 6S5
Tel: (403) 291-4444
Fax: (403) 250-6549
Export/Marketing Contact:
Mr. Michael H. Crombie
Marketing Manager

Evans Consoles Inc., founded in 1979, designs and manufactures a comprehensive line of modular electronic equipment console enclosures and workstations for electrical utilities' EMS, Transmission and Distribution and Telecommunications network control centers. Evans Consoles, with over 70 employees, operates from a modern 31,000 square foot office and manufacturing facility in Calgary, Alberta. Its highly qualified design group and continuing commitment to research and development assures the company's pre-eminence in a rapidly changing electronic and technical environment. The company's modular console enclosure system utilizes a patented steel and aluminum open loop "g" frame which permits the mounting of a wide range of

equipment including standard and PC driven CRT's, telecommunications equipment, printers, alarm and annunciator panels and paper management. Non-load bearing "clip-on/off" exterior panels are offered in wood veneer, plastic laminate, fibreglass and 16 gauge steel and can be colour coordinated to provide a distinct custom look to each customer's control room.

Industry Sector: Panels

Globex Canada/Ber-Mar Electrical Ltd.

#14, 6325 12 Street S.E.
Calgary, Alberta
T2H 2K1
Tel: (403) 259-4977
Fax: (403) 255-1842
Export/Marketing Contact:
Mr. Shaun Going
Vice-President

The company provides a complete range of electrical services to the oil fields, including engineering, drafting, electrical construction, and control panel manufacturing. The company provides on-site expertise, with particular capability in custom designed and installed control and distribution systems.

Industry Sector: Panels

Raffin Electric Co. Ltd.

5539- 1st Street
CALGARY, Alberta
T2H 1H9
Tel: (403) 252-7551
Fax: (403) 252-8436
Export/Marketing Contact:
Mr. P. Raffin
President

Raffin Electric Co. Ltd. founded in 1956, is a leader in the design and manufacture of control panels and consoles. Raffin uses only components of high quality and reliability in its control panels. Standard features of Raffin control panels include fully welded or extruded cabinetry; precision computer controlled punching and forming; electrostatically applied,



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Canada

baked finish; hot stamp wire marking, and 100 per cent testing and inspection
Industry Sector: Panels

Roger Girard Inc.

10,123 Hotel De Ville
MONTREAL-NORD, Quebec
H1H 3V3
Tel: (514) 324-1520
Fax: (514) 324-8754
Export/Marketing Contact:
M. Roger-Pierre Girard
Office Manager

Established in 1953, Roger Girard Inc. manufactures aluminum, steel and stainless steel electrical panels. The panels are used by Hydro-Quebec for electrical controls in its distribution system, and in power stations.

Industry Sector: Panels

PARTS AND COMPONENTS

ATC-Frost Magnetics

1130 Eighth Line
OAKVILLE, Ontario
L6H 2R4
Tel: (416) 844-6681
Fax: (416) 844-6895
Export/Marketing Contact:
Mr. Efraim Ritter

ATC and Frost have independently supplied transformers, chokes and small ballasts for over 35 years. Combined, ATC-Frost can now supply complete magnetic needs from the smallest audio transformer and Ferrite component to large power and control transformers in the 3KVA range. ATC-Frost specializes in custom engineered magnetic solutions designed with optimized computer programs and built in two efficient operations in Oakville and Waterloo, Ontario.

Industry Sector: Parts and Components

Canadian Contacts & Supply Inc.

335 Laird Road, Unit #2
GUELPH, Ontario
N1H 6J3
Tel: (519) 821-2336
Fax: (519) 821-5721
Export/Marketing Contact:
Mr. Randolph Kervin
President

Canadian Contacts & Supply Inc., since its beginning in 1982, has supplied electrical renewal/replacement parts to a variety of industries. Many of the parts such as contacts, shunts, carbon brushes, etc. manufactured by CCSI are parts that have been obsoleted by various original equipment manufacturers. CCSI utilizes AUTOCAD Release 11 in the reverse engineering and design drafting department and has the ability to manufacture a wide range of parts. CCSI is currently manufacturing and/or repairing parts and equipment for the utilities, mining, steel making, pulp and paper and railroad industries.

Products include:

1. Bronze, brass and copper trolley wheels
2. Commutator treating supplies, commutator stones, brush seating stones, rubrite abrasives
3. Complete range of braided shunts, copper or tinned wire, insulated or uninsulated, ratings to 10,000 Amps
4. Complete line of insulators, nylon, acrylic, polyester fibreglass and lexan
5. Non-asbestos arc shutes and arc barriers
6. Collector contact shoes, carbon, metal graphite, bronze, cast iron and nickel
7. Pantographs
8. Complete collector assemblies
9. Replacement electrical parts, segments, contacts, dead plates, springs, fingers and fibre plates for the following:

Clark, EC & M, General Electric, Cutler Hammer, Jeff, Euclid, I & H, Westinghouse, Goodman

Industry Sector: Parts and Components

Carbone of America (LCL) Ltd.

225 Harwood Blvd.
DORION, Quebec
J7V 1Y3
Tel: (514) 455-5728
Fax: (514) 457-7106 & (514) 455-5052
Export/Marketing Contact:
Mr. J.A. King, P.Eng
General Manager

Canadian Subsidiary of the Le Carbone Lorraine - Group, whose head office is in Paris, France, Carbone of America manufactures at plants in Dorion, Quebec & Toronto, Ontario employing approx. 150 people. Carbone is one of the major suppliers in North America of carbon brushes for electrical machines for industrial and traction applications. Products are carbon brush-holders, slip rings, power collector & grounding assemblies for electric traction system. They also supply/assemble DC switchgear up to 1500 volts, semi-conductor fuses, power resistors, speed sensors such as tachogenerators, shaft encoders, resolvers etc., HCL burners and impervious graphite chemical process equipment such as heat exchangers absorbers.

Industry Sector: Parts and Components

Contracteur Boulianne Ltée (CBL)

2050 Dechesnes, C.P. 1004
JONQUIERE, Quebec
G7S 4K6
Tel: (418) 548-3134
Fax: (418) 548-5206
Export/Marketing Contact:
M. Henri Boulianne
President

In business since 1950, CBL rewinds and repairs electric motors and current transformer coils for its motor and transformer repair, and for other customers.

Industry Sector: Parts and Components

Cormag Inc.

3415 Landmark Rd.
BURLINGTON, Ontario
L7M 1T4
Tel: (416) 335-3490
Fax: (416) 336-3477
Export/Marketing Contact:
Mr. Keith Brain
Sales Manager

Cormag, established in 1972, was purchased in 1984 by Surahammers Bruks A.B., a Swedish steel mill totally dedicated to production of quality electrical steel. With annual sales of more than \$25 million, Cormag and its sister company Normag in Bridgeport, CT., U.S.A. are the largest independent manufacturers of electrical steel cores in North America. Cormag warehouses a full range of electrical steel, and manufactures a comprehensive list of electrical cores for the transformer industry.

The comprehensive electrical steel product line includes:

-Cold-rolled grained-oriented electrical steel for transformers.

-Cold-rolled fully processed non-oriented electrical steels for motors, generators, small transformers, and ballasts.

Both of these are cut to specific widths.

-Distributed gap cores weighing well over a ton or small enough to fit into the palm of the hand, available in end gap, single sided gap and double sided gap.

-Toroids-coated or uncoated, round or rectangular, Cormag provides cores in a wide variety of diameters and widths

-Cut-to-length shunts-Cormag supplies square cut shunts and scrapless mitre cut shunts.

Industry Sector: Parts and Components

Crosslink Technology Inc.

6680 Finch Ave. West, unit #1
ETOBICOKE, Ontario
M9W 6C2
Tel: (416) 674-0510
U.S. 1-800-563-3769
Fax: (416) 674-7563
Export/Marketing Contact:
Mr. Karl Egenberger
Marketing Manager

Established in 1981, Crosslink Technology Inc. has two distinct divisions:

1) The Liquid Products Division is a leading manufacturer of epoxy and urethane insulating encasement compounds for the electrical and electronic industries. Formulations are developed and manufactured to suit specific customer requirements.

2) The Cast Parts Division is a recognized supplier of high quality transformer/switchgear components such as bushings, stand-off insulators and various custom cast parts.

Both main product lines are supplied to original equipment manufacturers.

Staying close to the customer, just-in-time supply and consistently high quality products puts the company among the best in its field of endeavour.

"We place customer satisfaction above any other business consideration."

Industry Sector: Parts and Components/
Insulating Compounds

Daly's Inc.

420 Millen Road
STONEY CREEK, Ontario
L8E 3N9
Tel: (416) 662-1652
Fax: (416) 662-3690
Export/Marketing Contact:
Mr. Ed Daly
President

Daly's Inc. manufactures wedges for water wheel generators, motors and turbo-alternators, and pressed board parts and presspan for transformers. The company also manufactures industrial insulation components, wet moulding, polyester

sheets, angles and channels, and terminal boards.

Industry Sector: Parts and Components

EHV Weidmann Industries Ltd.

930 Gartshore Street
FERGUS, Ontario
N1M 2W7
Tel: (519) 843-4660
Fax: (519) 843-4891
Export/Marketing Contact:
Mr. Harry Gallant
Vice-President, Marketing and Sales

EHV Weidmann specializes in the fabrication and distribution of non-metallic flexible and high pressure rigid laminates from its three locations in Fergus, Ontario, St. Jerome, Quebec and Edmonton, Alberta. These products have primarily electrical insulating applications but also have several other applications in a variety of other industrial sectors. The company ships very little product to the U.S., but are currently searching for ways to successfully penetrate that market.

Industry Sector: Parts and Components

EI-Mel Parts Inc.

47 Head Street
DUNDAS, Ontario
L9H 3H6
Tel: (416) 628-6366
Fax: (416) 628-4762
Export/Marketing Contact:
Mr. John Payne
Sales Manager

The company manufactures steel laminations for electric motors, transformers and ballasts. The company also does steel slitting and warehousing services, magnetic core winding, and specialty annealing.

Industry Sector: Parts and Components



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Canada

Electrical Contacts Limited

519 22nd Ave. P.O. Box 160
HANOVER, Ontario
N4N 3C4
Tel: (519) 364-1878
Fax: (519) 364-4626
Export/Marketing Contact:
Mr. P. Allen
Sales Manager

Electrical Contacts Limited is a manufacturer of precious metal contact materials that has served the electrical distribution & control industry, the automotive controls industry and the appliance controls industry for over twenty years. ECL's objective is to bring value to customers in the form of quality products and service. As a specialized manufacturer ECL maintains all of the necessary facilities and people to perform the work required in producing precious metal contacts to customers' exact specifications. Contacts produced using sintering techniques for high power interruption, and clad products and wire formed products, for low power interruption, are all part of the product. All are manufactured on a custom basis to specification.

Product Profile:

ECL's product range includes discreet sintered contact materials for high power interruption. Sintered refractory materials such as tungsten, tungsten carbide and molybdenum are combined with silver or copper in producing these very hard, very durable contacts. Applications for these products exist primarily in the switchgear and circuit breaker field. Discreet high silver content contact materials such as fine silver, silver cadmium oxide, silver tin oxide and silver graphite are also produced by ECL. The high conductivity property of these materials makes them attractive for applications such as thermostatic devices, relays, contactors, and motor controllers. Due to the tremendous hardness of the sintered refractory contact materials these products exist in pieces part form only. However, the high silver content materials exist in a number of forms. ECL uses these high silver content materials in the production of wire formed parts, whether they are bimetal or single

metal contacts; in clad products whether they are trimetal or bimetal products and in the assembly of discreet contacts to supports. All of these engineered products are available from ECL. Technical support for difficult applications or problems is available for the benefit of ECL's customers.

Industry Sector: Parts and Components

Heinemann Electric Canada Ltd.

343 Deslauriers Street
MONTREAL, Quebec
H4N 1W2
Tel: (514) 332-1163
Fax: (514) 332-5751
Export/Marketing Contact:
Mr. Graham Shaw

The company is a leading Canadian manufacturer of DC precision magnetic circuit breakers-0.01 to 100 amps, relays for the control of street lights, and special control panels.

Industry Sector: Parts and Components

Hillmar Industries Ltd.

7168 Honeyman Street
DELTA, B.C.
V4G 1G1
Tel: (604) 946-7115
Fax: (604) 946-0329
Export/Marketing Contact:
Mr. Ian Bourhill

Hillmar Industries Ltd. is a small, wholly owned Canadian manufacturing company based in B.C., Canada. All parts are manufactured, assembled and designed at Hillmar's modern 2,500 square metre manufacturing plant in Delta. Hillmar manufactures electrically driven and controlled Mono-Spiral cable reels. These reels are designed to allow large cranes to move laterally along dock and land facilities, reeling in and paying out the cable (depending on crane direction) which supplies the main power for the crane drives and controls.

Industry Sector: Parts and Components

Industrial Commutator Company Ltd.

80 Morrow Road
BARRIE, Ontario
L4N 3V8
Tel: (705) 728-1469
Fax: (705) 728-1372
Export/Marketing Contact:
Mr. D.R. Simpson
President

The company manufactures industrial commutators and slip rings for electric DC motors and generators.

Industry Sector: Parts and Components

Precision Paper Tube Ltd.

3280 Lenworth Drive
MISSISSAUGA, Ontario
L4X 2G2
Tel: (416) 625-1064
Fax: (416) 625-8735
Export/Marketing Contact:
Mr. Bind Berardicuri
President

Precision Paper Tube has manufactured paper tubes for the transformer industry for over 25 years. The company's product line includes round, rectangular, and square tubes, ranging from 1/4" to 4" in diameter for the round, 1/4" x 1/4" to 12" x 12" diameter for the rectangular and square tubes.

Industry Sector: Parts and Components



**Siemens Automotive Limited -
BCL Magnetics Plant**

5045 North Service Road
BURLINGTON, Ontario
L7L 5H6
Tel: (416) 335-2530
Fax: (416) 335-8474
Export/Marketing Contact:
Mr. Dave Dore
US Sales Manager

Siemens BCL Magnetics manufactures high quality stamped components for the lighting and electrical industries, utilizing a complete range of grades and gauges of nickel alloy, silicon and cold-rolled steels. Products are magnetic laminations for electric motors, transformers; nickel alloy laminations and staked laminations; and toroidal transformer cores, the company also does custom slitting of light gauge steel coils, and custom annealing
Industry Sector: Parts and Components

POLE LINE HARDWARE

**A.B. Chance Co. of Canada
Ltd.**

100 Howden Road
SCARBOROUGH, Ontario
M1R 3G1
Tel: (416) 288-9444
Fax: (416) 759-9053
Export/Marketing Contact:
Mr. S. Thomas
Marketing Administrator

Since 1907, A.B. Chance Co. has grown increasingly adept in applying modern technology to solve the problems of planning, building, operating, maintaining and controlling electric power and telecommunications systems. Today, Chance is a world-class company whose products and special expertise serve the needs of dozens of industries at home and abroad. Product lines include earth anchors, hot line tools, switching and system protection, pole line hardware, epoxyrod insulation, and grounding and jumpering.
Industry Sector: Pole Line Hardware

Conex Power Products Inc.

34 Sawley Dr.
WILLOWDALE, Ontario
M2K 2J1
Tel: (416) 222-6705
Fax: (416) 490-0387
Export/Marketing Contact:
Mr. Carl X. Laprairie
President

Conex Power Products Inc. is engaged in the design, development, manufacturing and supply of conductor hardware, pole line hardware and other products relating to the electrical power industries. Conex sub-contracts the various manufacturing operations to a number of qualified Canadian sources with the objective of 100% Canadian content. The Company provides transmission line hardware and accessories such as insulator fittings, suspension clamps and conductor terminals for all voltages including EHV (Extra High Voltage) lines; pole line hardware and conductor accessories for sub transmission overhead distribution lines; a variety of connectors for the bus conductors for substations; and grounding clamps and connectors for counterpoise, station grounding of equipment, fence and structures. Connectors are supplied to electrical utilities and manufacturers for various electrical apparatus. The company devotes a major effort to export sales either directly or in conjunction with other companies. Besides offering its own products the company will offer other products to complete packages of materials as requested by international buyers. Conex is interested in developing business worldwide and is open to consideration for joint venture and technology exchange.

Industry Sector: Pole Line Hardware

**Electric Power Accessories Co.
Ltd.**

27 Selby Road
BRAMPTON, Ontario
L6W 1K5
Tel: (416) 475-8300
Fax: (416) 457-9696
Export/Marketing Contact:
Mr. J.A. Josephson
Export Manager

The company is a manufacturer of transmission and distribution products for the electrical utility industry and have been exporting since 1977. They manufacture specialty pole line hardware: deadend/suspension insulators, line post insulators, and fibreglass guy strain insulators; insulator brackets, conductor clamps and connectors. They also manufacture street lighting, photo-electric controls, mercury vapour lamp, ballasts, and polymer insulators.
Industry Sector: Pole Line Hardware

Lyster Industries Inc.

2555 Bécancour - C.P. 250
LYSTER, Quebec
S0S 1V0
Tel: (819) 389-5751
Fax: (819) 389-2193
Export/Marketing Contact:
M. G. Dubé
Sales Manager

Lyster Industries Inc. is a manufacturer of pole line hardware for electrical utilities.
Industry Sector: Pole Line Hardware



Industry, Science and Technology Canada / Industrie, Sciences et Technologie Canada



Poltec Industries Ltd.

10440 Héroult
MONTREAL-NORTH, Quebec
H1G 5R4

Tel: (514) 326-6030

Fax: (514) 326-9923

Export/Marketing Contact:

Mr. Robert L. Grimaudo

Sales & Plant Manager

Poltec Industries Ltd. is a Montreal based manufacture of pole line hardware and electrical entrance equipment. With warehousing in Montreal, Quebec and Vancouver, B.C., Poltec serves the electrical utilities and electrical distributors from coast to coast in Canada. Products are manufactured to C.S.A. specifications or can be custom made for special usage.

Products include:

- Pole Line Hardware includes:
 - Guying equipment (anchoring)
 - Grounding equipment
 - Bolts (all types)
 - Brackets
 - Porcelain Insulators
 - Pole braces & cross arms
- Mast & Accessories:
 - Entrance Mast
 - Adapters and Reducers
 - Roof Flanges
 - Mast Racks
 - Entrance Caps

Industry Sector: Pole Line Hardware

Tridem Manufactured Products Inc.

359 Frankcom Street

ALAX, Ontario

L1S 1R4

Tel: (416) 686-0521

Fax: (416) 686-0521

Export/Marketing Contact:

Mr. G.E. Hunt

A manufacturer of transmission and distribution hardware and connectors for the electrical utility sector, Tridem Manufactured Product Inc. has gained an excellent reputation for service and quality products since 1970. The management of the company is deep in industry experience

and seeks out the specialized application needs of its customers. Its customer base includes all the major Canadian power companies and municipal utilities. The company exports and imports on a minor scale and holds patents issued in Canada, the United States and Australia. Specific product lines include 1) transmission hardware: suspension, dead end and corona; 2) distribution hardware: pole line and connectors; 3) fibreglass: standoff brackets and insulating strain rods; 4) others: tools and customer speciality products.

Industry Sector: Pole Line Hardware

POLES

Acier Girole Inc.

3670 Jean Viel
MONTREAL, Quebec
H1B 5N3

Tel: (514) 645-7466

Fax: (514) 645-0002

Export/Marketing Contact:

M. Gilles A. Fontaine

President

Acier Girole is a leading Canadian manufacturer of street lighting poles. The company has distinguished itself by the diversity of its products, conventional as well as decorative poles. Over the years, Acier Girole has developed revolutionary new products in this field. A large part of its market is the result of a reversible pole system which permits the pole to be easily lowered to the ground to facilitate installation or maintenance. This is done with a spring and hydraulically activated system.

Industry Sector: Poles

Domtar Inc. - Wood Preserving Division

2021 Union Avenue, 12th Floor
MONTREAL, Quebec
H3A 2S9

Tel: (514) 848-5247

Fax: (514) 848-5661

Export/Marketing Contact:

Mr. J. Kaddis

Manager of Exports

Domtar manufactures wood utility poles, preserved by pressure-treating, for power transmission and power distribution as well as for the communication utilities. Domtar is the largest Canadian manufacturer of pressure-treated industrial wood products. Its six plants are strategically located across Canada. Raw material commodity quality standards are rigorously enforced, as are quality control of the treating processes, and final inspection. Preservatives available in Domtar treated products are: creosote, pentachlorophenol, CCA and ACA.

Industry Sector: Poles

Pole-Lite Ltd.

1 Edouard VII Blvd.
ST. PHILIPPE, Quebec
J0L 2K0

Tel: (514) 659-8951

Fax: (514) 444-3661

Export/Marketing Contact:

M. Michel Pinsonneault

Pole-Lite has been active in the aluminum and steel lighting-pole manufacturing industry since 1958. In addition to its street poles and devices, Pole-Lite manufactures cellular monopoles and communication towers which are sold throughout Canada, the U.S., Puerto Rico and in other countries in the middle East and the Caribbean. With production and engineering facilities across North America that hone the cutting edge of technology, and sales representatives throughout the continent, Pole-Lite can meet customer needs for aluminum or steel lighting poles*, Traffic light poles, Hi-Mast poles, Cellular Monopoles, and Communication



towers, whatever the demands or specifications.

*believed to be environmentally superior to wood or concrete poles in terms of life-span and ability to be recycled.

Industry Sector: Poles

West Coast Engineering Ltd.

7984 River Road

DELTA, B.C.

V4G 1E3

Tel: (604) 946-1258

Fax: (604) 946-1203

Export/Marketing Contact:

Mr. Dick Butler

President

West Coast Engineering Ltd. was established in 1977 as a supplier of steel poles and street light brackets and other related products to Canadian utilities, government agencies and the private market through established wholesalers. Plant area comprises 24,000 sq. ft. of plant and 3,000 sq. ft. of office located on 2.78 acres of industrial land. All of the major production machinery was developed and assembled in-plant, after active research into various types of existing pole plant technology and equipment. The equipment available in the market place was found incompatible with the requirements for the wide variety of poles required to meet customer demands. With the expertise developed in the course of years of both equipment and pole manufacturing, a new international turnkey pole plant package was released into active marketing in 1983, and the Company has developed a highly efficient export package designed and tested to the particular needs of customer. West Coast Engineering has been involved in a wide variety of demanding and different projects ranging from transmission to street lighting. They have developed a system of manufacture including every piece of equipment specifically designed for metal pole manufacture.

Industry Sector: Poles

REPAIR AND OVERHAUL

NEI Parsons Canada Limited

40 Neilson Avenue
ST. CATHARINES, Ontario
L2M 7M9

Tel: (416) 687-1170

Fax: (416) 687-4998

Export/Marketing Contact:

Mr. William J. Cumming

Marketing Engineer

NEI Parsons Canada Limited (A Rolls-Royce Company), with its new unique 49,750 sq.ft. facility, is equipped to service and refurbish turbine generators of unit sizes 1000 kW to 1,000,000 kW, reblading turbines, rewinding generator rotors, rebuilding stators as well as undertaking machining and fitting work on spare parts. The facility also undertakes general engineering machining and electrical/mechanical fitting work on a range of company and third party products. Planning to employ up to 100 specialized personnel, NEI parsons Canada Ltd. will provide excellence in quality and on-time service, and to support existing spare parts and on-site service teams.

Industry Sector: Repair and Overhaul

RESISTORS

IPC Resistors Inc.

7615 Kimbel St. Unit 2
MISSISSAUGA, Ontario
L5S 1A8

Tel: (416) 673-1553

Fax: (416) 673-8472

Export/Marketing Contact:

Mr. Danny Dannawi

President

IPC Resistors Inc. specializes in the design and manufacturing of Power Resistors. The company's product line includes Wirewound Resistors, Edgewound Resistors, Stamped Grid Resistors and Ribbon Resistor Components. As well as complete engineered resistor banks for

Mine Hoist, Overhead Cranes, Construction Tower Cranes and Neutral Grounding Resistors. Since it was established IPC has been committed to the production of the highest quality products. IPC has offices and manufacturing factory in Mississauga, Ontario and Marketing and Engineering Office in the Greater Cincinnati area in the U.S.A.

Industry Sector: Resistors

RTU'S

Westronic Inc.

4525 Manilla Road S.E.
CALGARY, Alberta

T2G 4B6

Tel: (403) 243-3335

Fax: (403) 243-1815

Export/Marketing Contact:

Mr. Roh Farquharson

Westronic designs, manufactures and supplies remote terminal units (RTUs) and station automation equipment for the power utility industry. The company develops real-time software for device to device communications and innovative microprocessor-based hardware using distributed processing. This means that the products have a long life cycle and are flexible to meet future needs. Westronic sells RTUs and station automation equipment directly and through OEMs, as well as the following products: power supplies (SwitchMode), metal and fibreglass cabinets, PC-based master station software, modems and 900 MHz radios. All products are designed and tested to meet and exceed major world standards (IEEE and IEC). There is a strong commitment to customer service and product performance which has made Westronic a respected and recognized leader in this industry.

Industry Sector: RTU's



Industry, Science and Technology Canada / Industrie, Sciences et Technologies Canada

Canada

SCADA

ASW Computer Systems Ltd.

75 Lakeshore Road East
PORT CREDIT, Ontario
L5G 1C9

Tel: (416) 274-7774

Fax: (416) 274-5194

Export/Marketing Contact:

Mr. Kevin Oerton

ASW Computer Systems was established in 1979 with a mandate to provide industrial and governmental clients with engineering services, primarily in advanced electronics design and real-time software. Early in its history, the company entered the industrial monitoring and control marketplace, and has developed a number of products that provide standard building blocks with which to implement solutions tailored to clients' needs. The products are particularly applicable to electrical generation, transmission, and distribution systems. ASW Computer Systems offers a complete range of SCADA products, allowing them to sell and support complete turnkey SCADA systems. Master Stations run on 386 or 486-level computers, offering PC-bus products for low to medium scale applications, and Multibus technology for mid to high-range requirements. The family of RTU products provide a single-board transducer less RTU product for distribution automation applications, a mid-range product for substation automation, and a high-end modular RTU for large point counts or special applications such as multiple Master support, Sequence of Events Recording or Automatic Generation Control.

Industry Sector: SCADA

CAE Electronics Limited

8585 Cote de Liesse
ST. LAURENT, Quebec
H4T 1G6

Tel: (514) 341-6180

Fax: (514) 341-7699

Export/Marketing Contact:

Mr. John Charles

CAE Electronics is one of the world's leading advanced technology companies and is a foremost Canadian scientific, systems and software house. Based at St. Laurent, Quebec, and with a sister company in Strolberg, West Germany, CAE applies sophisticated real-time computer-based technology to large, complex simulation and control tasks across a broad spectrum of applications. Electrical utility power system products comprise SCADA, utility energy management systems and nuclear power plant training simulators.

Industry Sector: SCADA

Willowglen Systems Ltd.

Willowglen Business Park, #4 Manning
Close N.E.

CALGARY, Alberta

T2E 7N5

Tel: (403) 272-1800

Fax: (403) 272-2114

Export/Marketing Contact:

Mr. J. Malcolm Milne

Export Manager

Willowglen specializes in the Engineering, Design and Supply of Supervisory Control and Data Acquisition (SCADA) systems. Major applications of advanced technology SCADA systems are in the Oil & Gas, Electric Power, Water/Wastewater, Telecommunications and Transportation industries. Willowglen has been a major supplier of SCADA systems worldwide since 1974. Its large, modern facility, consisting of Head Office and Manufacturing Plant, is located in Calgary, Alberta, with branch offices strategically located internationally. Willowglen personnel have a proven ability to design and implement safe and secure systems

using state-of-the-art hardware and software. Thus, the Willowglen solution meets the stringent performance criteria essential to the SCADA environment. Willowglen's SCADACOM Master Station represents a new generation of SCADA systems. The SCADACOM Master Station is designed with real time performance and incremental expansion as basic features. Coupled with a sophisticated high resolution man-machine interface and fault tolerant operation, the SCADACOM Master Station brings new levels of reliability and flexibility to the SCADA marketplace. SCADACOM works on a hardware platform of SUN Microsystems RISC-Architecture Workstations on a high speed Local Area Network (LAN). Its implementation of a real-time Object Oriented Database multiplies performance factors by one to two orders of magnitude over conventional SCADA systems.

Industry Sector: SCADA

SUBSTATIONS

Markham Electric Limited

215 Anderson Avenue, P.O. Box 2700

MARKHAM, Ontario

L3P 4C7

Tel: (416) 294-9405

Fax: (416) 294-9555

Export/Marketing Contact:

Mr. Bryan Rees

Export Manager

Markham Electric Limited are specialists in high voltage electrical equipment. The product range includes switchgear, transformers, cable bus duct, instrument transformers and complete substations. In addition to equipment supply, the company also offers engineering design, commissioning, installation and world-wide sourcing capability. The ability to either manufacture or source components from internationally recognized suppliers plus the ability to engineer and co-ordinate a complete package is the key to Markham's success in this highly specialized field.

Industry Sector: Substations



Industry, Science and
Technology Canada

Industrie, Sciences et
Technologie Canada

Canada

SWITCHGEAR

Boundary Electric (1985) Ltd.

7990 Columbia Ave. Box 758
GRAND FORKS, B.C.
V0H 1H0
Tel: (604) 442-5561
Fax: (604) 442-8332
Export/Marketing Contact:
Mr. Rob Dockstader

Boundary Electric designs and manufactures custom switchgear in both high & low voltage, and supplies new & remanufactured transformers up to 230 KV class, dry type including distribution. Boundary also manufactures portable & underground sub-stations for both development and permanent power supplies.

Industry Sector: Switchgear

G&W Electric Ltd.

6581 Kitimat Rd.
MISSISSAUGA, Ontario
L5N 3T5
Tel: (416) 821-8892
Fax: (416) 821-7979
Export/Marketing Contact:
Mr. W.I. Tonge
Vice President-Marketing

G&W Electric has been building cable accessories for underground cable since 1905. The quality of the product, as it conforms to the requirements of G&W's customers, has the highest reputation. The Canadian plant, 23,000 square feet, and 25 employees manufactures porcelain terminations, 15-69 kV, oil and SF6 insulated load-break sectionalizing switches 15-38 kV, and various splicing materials and compounds.

Products include:

- Capnut potheads 5-46 kV up to 3000mm conductor size
- "Eliminator" and "PAT" slip-on terminators for solid-dielectric cable
- Oil insulated load-break switches, submersible padmounted.
- SF6 insulated load-break switches, vault and padmountable

-Current-limiting protectors*
Industry Sector: Switchgear

GEC Alstom Energie Inc.

1400, boulevard Industriel
LAPRAIRIE, Quebec
J5R 2E5
Tel: (514) 659-8921
Fax: (514) 659-3371
Export/Marketing Contact:
Mr. Juan A. Morales
Dir. - Intl. Dev.

Established in 1964, GEC Alstom Energie formerly Cegelec Industries Inc., manufactures a complete range of 15 kV to 800 kV electrical equipment for transmission and distribution networks. The company's product line includes: Air blast, minimum oil and SF6 circuit breakers, different types of disconnect switches, solid and hollow type insulators, gas insulated switchgear, medium voltage switchgears and fused cutouts. Recent developments include the new all weather circuit breaker, capable of interruptions of 50 kA at -50°C or 63kA at -40°C, using pure SF6 as well as disconnect switches with breaking capacity for series compensation applications in high voltage transmission lines, and ground interrupter switches.

Industry Sector: Switchgear

Joslyn Canada Inc.

1560 - 55th Avenue
LACHINE, Quebec
H8T 3J5
Tel: (514) 631-6145
Fax: (514) 631-1215
Export/Marketing Contact:
M. Michel Mondor

Joslyn Canada Inc. through the use of Joslyn Corp. technology manufactures and supplies products used for the protection, construction and maintenance of Electric Power Transmission and Distribution facilities. The main products are vacuum capacitor switches, overhead vacuum sectionalizers, vacuum switches for arc furnaces, underground and pole top SF6

switches, power and current, limiting SF6 fuses, secondary and distribution class surge arresters, station and intermediate class surge arresters, underground cable accessories and fused cutouts. Joslyn Canada Inc. is also actively involved in the research and development of custom-built products. It is located in Lachine, Quebec where over thirty-five (35) people are employed. Over the years, Joslyn has established itself as one of the leading manufacturers of Distribution equipment in Canada.

Industry Sector: Switchgear

Kearney National Canada Ltd.

9240 Langelier Blvd.
ST-LEONARD, Quebec
H1P 2E1
Tel: (514) 323-1274
Fax: (514) 323-8543
Export/Marketing Contact:
M. Michel St. Onge
Vice President Sales and Marketing

Kearney National (Canada) Ltd. designs manufactures products used by electrical utilities and industries in Canada and around the world. The company's product line includes distribution air-break disconnect switches, fuse cutouts and fuse-links, additional lines that are manufactured or distributed include products which are used to make all kinds of electrical connections and to assist in the maintenance and repair of distribution systems. The company's strength in the Canadian and export markets is due to its reputation for high quality, competitively priced products.

Industry Sector: Switchgear



Industry, Science and Technology Canada
Industria, Sciences et Technologie Canada

Canada

Merlin Gerin Canada Ltée

1375, Graham Bell
BOUCHERVILLE, Quebec
J4B 6A1
Tel: (514) 641-1340
Fax: (514) 641-1472
Export/Marketing Contact:
M. Jean Archambault
Marketing Manager

Merlin Gerin Canada supplies electrical equipment to the leading electrical distribution markets in the country. Merlin Gerin Canada manufactures a complete range of exterior circuit breakers, medium voltage capacitors and equipment for the navy. Merlin Gerin Canada also supplies a complete range of low and medium voltage circuit breakers.
Industry Sector: Switchgear

PCG Switchgear Ltd.

4140 Finch Ave. East
SCARBOROUGH, Ontario
M1S 3T9
Tel: (416) 292-9801
Fax: (416) 292-5796
Export/Marketing Contact:
Mr. A.B. Preston
President

PCG Switchgear Ltd. is one of the leading manufacturers of custom designed products for electrical generation, transmission & distribution systems. Specialized products are switchgear, control, metering & relay panels, bus-duct, portable substation, unit substations. Customers are utilities, paper & steel mills, petrochemical plants, mining companies, environmental & waste management companies etc. PCG packages mini & micro hydro, solar panels and other growth oriented products/packages.

Products include:

- Outdoor metal enclosed switchgear°
- Metal-Clad switchgear°
- Control Panels°
- Metering & Relay Panels°
- Solar Panels°
- Mini Hydro°

- Micro Hydro°
 - Bus Duct
 - Brochure attached
- Industry Sector: Switchgear

S&C Electric Canada Ltd.

90 Belfield Road
TORONTO, Ontario
M9W 1G4
Tel: (416) 249-9171
Fax: (416) 249-6051
Export/Marketing Contact:
Mr. H.K. Sandios
Director Int'l Sales

S&C Electric Company, serving the electric power industry since 1911, established its Canadian manufacturing facility in 1953. S&C specializes in the development and manufacture of switching and protective devices that play an integral part in delivering electric power in the most efficient and reliable manner. These devices minimize damage to circuits and equipment in the event of a short-circuit, make practical the extensive segmentation of circuits to minimize the number of power users affected by any outage, and reroute power flow for fast restoration of service.

Medium and high-voltage products include power fuses, fuse cutouts, fuse links, pad-mounted and metal-enclosed switchgear, interrupter switches and circuit-switchers.
Industry Sector: Switchgear

Westinghouse Canada Inc. Industries Group

P.O. Box 5040, Str "A", 3228 North Service Road
BURLINGTON, Ontario
L7R 3Y8
Tel: (416) 528-8811
Fax: (416) 634-2849
Export/Marketing Contact:
Mr R.E. Buckley
Manager, Export Sales

The Industries Group produces and markets electrical distribution and control products, including MV Metalclad Switchgear (to 34.5KV), MV Motor

Control - "Ampgard", LV Motor Control Centres "5 Star", LV Metal Enclosed Switchgear, LV Bus Duct, LV Control Devices, Molded Case Circuit Breakers, Service Entrance Equipment, Automatic Transfer Switches/Systems, LV Distribution Switchboards, Grounding Resistors, Panelboards, Airfield Lighting Controls, Static Exciters, and Network Protectors. Also available are Automation Technologies, Instrumentation Services°, Programmable Logic Controllers°, Replacement Coils°, Generation Services Upgrading/Overhauling, Field Services, Power System Studies, Wound Rotor and Squirrel-cage Induction Motors to 15,000 H.P.°
Industry Sector: Switchgear

TOWERS

Locweid Inc.

50 Iberville Avenue
CANDIAC, Quebec
J5R 1J5
Tel: (514) 659-9661
Fax: (514) 444-3111
Export/Marketing Contact:
M. Maurice J. Cyr
Vice President -Marketing

The company designs, manufactures, and galvanizes transmission line towers and substation structures. Locweid has a world class, world competitive manufacturing plant and has been particularly successful in export to Pakistan
Industry Sector: Towers



Quali-Metal Inc.

800 Boulevard St. Joseph
CHARLESBOURG OUEST, Quebec
G2K 1W6
Tel: (418) 626-0007
Fax: (418) 626-7933
Export/Marketing Contact:
M. G. Poulin
Vice President

Quali-metal Inc. manufactures transmission towers, lighting towers, stations, substations, bridges and docks.
Industry Sector: Towers

Trylon Manufacturing Co. Ltd.

21 Howard Ave.
ELMIRA, Ontario
N3B 2C9
Tel: (519) 669-5421
Fax: (519) 669-8912
Export/Marketing Contact:
Mr. Rod Fuller
Vice President

Trylon manufactures and designs a full range of towers for telecommunication purposes. It has custom facilities for the engineering of support structures for navigational aids, radar, cellular, LPTV, microwave and radio. Trylon offers a full turnkey service for installation of towers and antennas both domestically and abroad.
Industry Sector: Towers

TRAFFIC CONTROLS

Econolite Canada Inc.

1650 Midland Avenue
SCARBOROUGH, Ontario
M1P 3C2
Tel: (416) 752-4252
Fax: (416) 752-6357
Export/Marketing Contact:
Mr. Peter Keen, P.Eng.
General Manager

Econolite Canada Inc. manufactures and distributes Traffic Control Products throughout Canada to Government Agencies and private contractors providing services to the Municipal and Provincial Governments. Econolite offers a wide variety of products for managing and controlling vehicular traffic, including Signal Displays, Traffic Controllers, and Cabinet Assemblies and related components, Traffic Management Software and Emergency Vehicle Preemption Systems. Econolite has manufacturing and sales offices in Richmond, B.C. and Scarborough, Ontario and is represented throughout Eastern Canada (Quebec and The Maritimes) by Electromega Limited, based in Candiac, Quebec. Together with Econolite Control Products Inc. of Anaheim, California, Econolite Canada is one of the leading suppliers of Traffic Control Technology in North America and is committed to providing solutions to "Tomorrow's Traffic Problems Today". Product lines include: Arterial Traffic Management Systems, Signals and Mounting Hardware, Controllers, Cabinet Assemblies, Traffic Data Collection System, Detectors, Loops & Sealants, Vehicle Identification System, Conflict Monitors, Emergency Vehicle Preemption Systems, Load Switches, Relays, Flashers, L.E.D. Signs and Signals, and Surge Arrestors and Filters.
Industry Sector: Traffic Controls

Fortran Traffic Systems Limited

470 Midwest Road
SCARBOROUGH, Ontario
M1P 4Y5
Tel: (416) 288-1320
Fax: (416) 288-9914
Export/Marketing Contact:
Mr. Peter Lengyel
General Manager

Fortran Traffic Systems Limited is Canada's largest manufacturer and distributor of vehicular traffic signal control equipment and systems. Fortran services all aspects of the industry from the supply of traffic signals and associated hardware, to sophisticated control equipment and coordination systems. Fortran manufactures signals, beacons, brackets and cabinets. Fortran also offers advanced computerized control systems plus a complete range of custom engineered and customer support services.
Industry Sector: Traffic Controls

Polesystems (1990) Inc.

4822 Centre Street S.W.
CALGARY, Alberta
T2G 5A4
Tel: (403) 287-3610
Fax: (403) 243-8587
Export/Marketing Contact:
Mr. Jim Parisien
President

The company manufactures street light standards, traffic davits (poles), and traffic sign bridges.
Industry Sector: Traffic Controls



Topping Electronics

215 Nantucket Boulevard
SCARBOROUGH, Ontario
M1P 2P2

Tel: (416) 285-1272
Fax: (416) 757-8096

Export/Marketing Contact:
Mr. John C. Illingworth
General Manager

A Canadian systems electronics company incorporated in 1956, Topping Electronics has in-house capabilities ranging from micro-processor systems development and fabrication to electronic and communications equipment design, construction, assembly and test. In recent years, Topping Electronics has specialized in the design and manufacture of vehicular traffic control equipment and pipeline monitoring systems. Topping microcomputer traffic controllers are serving motorists in major cities across Canada and the United States as well as in state-of-the-art Freeway Traffic Management Systems, such as installed on Highway 401 in Toronto. Electronic pipeline inspection equipment, which travels through oil and gas pipeline to determine the pipeline's reliability and safety, is in use around the world. Regular customers include natural resource companies, governments and telecommunications common carriers. Products include:

In-house CAD system, electronics development laboratory, electronics design and prototyping, electronics product manufacturing and testing, microprocessor development system, micro-memories programming, engineering microcontroller prototypes, production and test of microcontrollers, traffic signal control equipment, pipeline inspection equipment, frequency synthesizers, multi-channel tape recorders, telecommunications equipment. Services include:

Engineering design, Software design system and applications, Circuit board design, PCB assembly, Metal fabrication, Electrical testing services, and Documentation services

Industry Sector: Traffic Controls

TRANSDUCERS

Gentec Inc.

2625 Rue Dalton
STE-FOY, Quebec
G1P 3S9

Tel: (418) 651-8000
Fax: (418) 651-6695
Export/Marketing Contact:
M. M. Laliberté
V.P. Marketing

Gentec Inc. manufactures transducers for watts, vars, and current, power factor correction system, and low voltage and high voltage capacitors. Gentec also manufactures dual energy demand control and lighting control systems, and custom designed systems for utilities
Industry Sector: Transducers

TRANSFORMERS

Cam Tran Co.

Box 866, Purdy Road
COLBORNE, Ontario
K0K 1S0

Tel: (416) 355-3224
Fax: (416) 355-2273
Export/Marketing Contact:
Mr. Bryn Campbell
President

Cam Tran builds oil filled distribution transformers for the utility, contractor, and industrial markets. Cam Tran's manufacturing facility is in Colborne, Ontario, 80 miles east of Toronto.

Products include:

- Single phase pole mount transformers 5 KVA - 500 KVA*
- Single phase pad mount transformers 25 KVA - 167 KVA*
- Three phase pad or pole transformers 15 KVA - 1500 KV*
- Cam Tran uses the newest technology available today to produce efficient transformers*

Industry Sector: Transformers

Carte International Inc.

1999 Logan Ave.
WINNIPEG, Manitoba
R2R 0H8

Tel: (204) 633-7220
Fax: (204) 694-0614
Export/Marketing Contact:
Mr. Douglas H. Ross
V.P. Sales

Carte International is a privately owned company with 20 years experience supplying transformers in many world markets. Carte uses computers extensively in design and manufacturing and can respond to most specialized requirements. Carte manufactures distribution and small power transformers up to 7500 KVA and 46KV, oil or R-temp filled, 50 HZ or 60 HZ. Single or three phase.* Low loss, high efficiency designs are available, as well as stainless steel tanks for long life in highly contaminated areas.

Industry Sector: Transformers

Delta Transformer of Canada Ltd.

795 Industrial Blvd.
GRANBY, Quebec
J2G 9A1

Tel: (514) 378-3611
Fax: (514) 378
Export/Marketing Contact:
M. S. Roy
Sales Manager

The company manufactures electrical transformers for control, distribution and power.

Industry Sector: Transformers



Industry, Science and
Technology Canada

Industrie, Sciences et
Technologie Canada



Canada

Federal Pioneer Ltd.

19 Waterman Avenue
TORONTO, Ontario
M4B 1Y2

Tel: (416) 752-8020

Fax: (416) 752-8944

Export/Marketing Contact:

Mr. B. Wiseman

V.P.-International

The company manufactures products for the transmission, distribution and control of electricity, in 10 plants across Canada. The product scope covers a wide range of products for utility, industrial, commercial and residential applications, including electric transformers heaters, moulded case circuit breakers, panel boards, switchboards, safety switches, low voltage metal enclosed, switchgear, medium voltage metal enclosed and metal clad switchgear fuses, bus duct and ground fault detectors. The product lines include the full range of low and medium voltage distribution equipment, and the full range of sizes and types of transformers including power transformers to 500 MVA. The company also manufactures solid state electrical equipment: digital metering systems, ground fault relays, zero sequence current sensors, USD relays, and transformer protection relays.

Industry Sector: Transformers

Ferranti-Packard Transformers Ltd.

Dieppe Road, P.O. Box 548
ST. CATHARINES, Ontario
L2R 6W9

Tel: (416) 685-6551

Fax: (416) 685-9783

Export/Marketing Contact:

Mr. E.K. White

Vice-President - Sales

Established in 1894, Ferranti-Packard Transformers Ltd. designs and manufactures a complete line of distribution and power transformers for electrical power utilities and industry. Ferranti-Packard Transformers Ltd. is a Rolls-Royce Company.

Industry Sector: Transformers

Hammond Manufacturing Company Limited

394 Edinburgh Road N.

GUELPH, Ontario

N1H 1E5

Tel: (519) 822-2960

Fax: (519) 822-0715

Export/Marketing Contact:

Mr. J.L. Husson

Export Manager

The company manufactures a wide range of transformers, magnetic components, metal and plastic cabinetry products to world markets. Four major lines of cabinetry products supply the international marketplace with enclosures ranging from miniature plastic and diecast metal cases to a full range of electrical enclosures, 19 inch rack mounting systems, desk-top cases, consoles and keyboards. Transformers from miniature P.C. mounting transformer and 5,000 KVA power transformers are available for export.

Industry Sector: Transformers

MagneTek Polygon Transformer Co.

50 Northline Road
TORONTO, Ontario

M4B 3E2

Tel: (416) 755-3301

Fax: (416) 755-7364

Export/Marketing Contact:

Mr. Dave Matthew

The company manufactures:

- Dry type power transformers
 - up to 10,00 KVA 27,600 volts
 - open wound
 - epoxy impregnated
 - cast coil
- dry type distribution transformers
 - single phase
 - three phase
- special voltage transformers
- epoxy potted transformers
 - up to 112.5 KVA 600 volts
- drive isolation transformers

- traction transformers
- portable mine substations
- mini substations
- single phase
- three phase

Industry Sector: Transformers

Marcus Transformer Of Canada Ltd.

999 du College, Suite 26

MONTREAL, Quebec

H4C 2S3

Tel: (514) 935-3543

Fax: (514) 935-6592

Export/Marketing Contact:

Mr. A. Marcus

Pres. & Sales Mgr.

The company manufactures dry type transformers, single-phase 3 to 333 kVA and 5 kV, three phase 6 to 600 kVA and to 5 kV. Marcus also manufactures control and electronic transformers.

Industry Sector: Transformers

Megatran Electric Ltee

280, Rue Carreau

ST. JEAN - SUR-RICHELIEU, Quebec

J3B 2G4

Tel: (514) 346-6622

Fax: (514) 346-2078

Export/Marketing Contact:

Mr. Narayan Shankar

Vice President

Megatran Electric Ltee is a specialty transformer manufacturer who manufactures dry type and cast resin transformers up to 17 MVA 27.6KV 150KV BIL, and special oil filled units upto 2L MVA capacity, and rectifiers and traction transformers.

Industry Sector: Transformers



Industry, Science and
Technology Canada

Industrie, Sciences et
Technologie Canada

Canada

Moloney Electric Corp.

213 Sterling Road
TORONTO, Ontario
M6R 2B4

Tel: (416) 534-9226

Fax: (416) 535 1384

Export/Marketing Contact:
Mr. Brian Spurling
Marketing Manager

Moloney Electric is a Canadian owned manufacturer of transformers and mobile substations. Headquarters is at Toronto, with plants at Toronto, Spruce Grove, Alberta and Sackville, New Brunswick. Products include oil filled distribution transformers 10 to 500 KVA, up to 34.5 KV; speciality transformers for variable voltage drives (the only manufacturer in Canada), 480 to 4000 volts, 25 to 500 KVA; power transformers to 138 kV, 25 mVA; and mobile substations 138 kV, 50 mVA. Moloney's amorphous metal technology for distribution transformers is unique and a new technology for the transformer industry. In the export markets Moloney is especially competitive in the manufacture of its mobile substations and three phase oilfield distribution transformers. Moloney's mobile substation technology is world class and unique to the international market.
Industry Sector: Transformers

Rex Manufacturing

25 Baywood Road
REXDALE, Ontario
M9V 3Y8

Tel: (416) 747-7818

Fax: (416) 747-1956

Export/Marketing Contact:
Mr. Rory I. Thomson
Marketing Manager

Rex Manufacturing has served the North American transformer industry since 1970. The company manufactures control transformers (25 VA - 5000 VA all voltages), power transformers (up to 5 MVA - 35,000 volts), auto transformers (all voltage), electrostatically shielded transformers, drive isolation and inverter

transformers, epoxy encapsulated transformers, 80 C and 115 C temperature rise transformers, motor starting auto transformers, ultra isolating transformers, reactors, all speciality transformers, and unit substations.

Industry Sector: Transformers

Tracon Engineering Inc.

520 Conestogo Road
WATERLOO, Ontario
N2L 4E2

Tel: (519) 884-2810

Fax: (519) 884-0062

Export/Marketing Contact:
Mr. Harold Best

Transformer Division Manager

Tracon Engineering Inc. is a privately owned Canadian corporation in the business of designing and manufacturing of special and standard dry type transformers up to 5mva and primary voltages of 27.6MVA. Tracon also assembles and wires custom control panels and consoles. Tracon has custom metal fabricating facilities and designs and manufactures custom consoles, desks, enclosures, racks, benchboards, operator cabins and C.R.T. systems in either mild steel or stainless steel.

Products include:

- Distribution and Power Transformers up to 5MVA at 27.6KV Voltage Level
- Single Phase and Three Phase Epoxy Potted Transformers
- Motor-Starting, Rectifier, and Special Drive Isolation Transformers
- Iron Core, Single and Three Phase Reactors and D.C. Chokes
- Zig Zag Neutral Grounding Transformers, Special Design Computer Transformers
- Custom Design Electrical and Pneumatic Control Systems
- Custom Design Metal Cabinets and Consoles
- Specialists in Custom Stainless Steel Fabricating

Industry Sector: Transformers

Transformateurs P.M. Ltee.

164, rue Cowie
GRANBY, Quebec
J2G 3V3

Tel: (514) 372-3456

Fax: (514) 372-5890

Export/Marketing Contact:
M. Daniel Meunier

Since 1960, Transformateurs P.M. Ltee has been manufacturing current potential and metering transformers, insulation class 0.6KV to 27.6KV in epoxy. The company specializes in very high precision custom built transformers. Principal customers are the electrical utilities and the switchgear manufacturers.

Industry Sector: Transformers

TRANSMISSION AND DISTRIBUTION (MISC.)

Agema Infrared Systems Ltd.

5230 South Service Road, Suite 125
BURLINGTON, Ontario
L7L 5K2

Tel: (416) 637-5696

Fax: (416) 639-5488

Export/Marketing Contact:
Mr. Edem Sosoo
Controller

Agema Infrared Systems Ltd., designs, manufactures and markets equipment for non-contact temperature analysis. Infrared thermography has major applications in almost all industries. The market is divided into four main segments: Research and Development, Condition Monitoring, Process Control and Medicine.

Agema Infrared Systems Ltd. offers a variety of systems for applications in all four segments from "Simple to Sophisticated" imaging products. Agema Infrared Systems Ltd. offers total market commitment with Systems Design and Engineering Support, Operator Training and Complete Product Service. Products include:



Industry, Science and
Technology Canada

Industrie, Sciences et
Technologies Canada



- Thermovision 800 and 900 Series & Accessories*
- Thermovision 400 Series & Accessories*
- Thermovision 200 Series & Accessories*
- Thermoprofile 6 & Accessories*
- TPT-800 & Accessories*

Industry Sector: Transmission and Distribution (Miscellaneous)

Alles Corp.

85 Dolomite Drive
DOWNSVIEW, Ontario
M3J 2N1

Tel: (416) 663-6405

Fax: (416) 663-6492

Export/Marketing Contact:

Mr. Dave Rathgeber

Alles Corp. was founded in 1985 to manufacture custom computer products for industry. The company is located in a 4400 sq.ft. building in Toronto and facilities include electronic assembly, soldering and automated testing. The business is family owned and serves gas and electric utilities and municipalities as well as large and medium sized industries. Specific products include custom computers for DEM applications, the Fillminder natural gas filling computer and the Netminder telemetering system for use on VHF/ VHF radio.

Industry Sector: Transmission and Distribution (Miscellaneous)

Andrew Canada Inc.

606 Beech St. West
WHITBY, Ontario
L1N 5S2

Tel: (416) 668-3348

Fax: (416) 668-8590

Export/Marketing Contact:

Dr. George Tong

Andrew Canada Inc. is a subsidiary of Andrew Corporation, a worldwide supplier of electronics and communications products and systems. The Canadian facility was established in 1953 and supplies products designed and manufactured to meet specifications and standards of both commercial customers

and Canadian and U.S. government agencies, including DOT and FAA. Andrew Canada Inc. designs and manufactures terrestrial microwave, satellite earth station, radar/navaid and high frequency antenna systems, and supplies coaxial cable, waveguide and related electronics. Other products include antennas for special applications such as reconnaissance and direction finding, and fabricated aluminum and steel structures.

Industry Sector: Transmission and Distribution (Miscellaneous)

Bier Marketing Inc.

1250 Mississauga Valley Blvd. Unit #107
MISSISSAUGA, Ontario

L5A 3R6

Tel: (416) 275-4187

Fax: (416) 275-6933

Export/Marketing Contact:

Mr. Bruce W. Bier

President

Bier Marketing was established in 1977, to supply the Canadian market with a complete range of hydraulic tools and accessories used in the construction and maintenance of overhead and underground transmission and distribution lines.

Products include:

- Hydraulic compression tools and dies (4 ton to 200 ton)
- Hydraulic cutting tools (up to 4" dia.)
- Hydraulic punching tools (up to 7/16" thickness)
- Electric/hydraulic and gasoline/hydraulic pumps and accessories

Industry Sector: Transmission and Distribution (Miscellaneous)

CVDS Inc.

6900 Trans Canada HWY.

PTE. CLAIRE, Quebec

H9R 1C2

Tel: (514) 694-9320

Fax: (514) 694-0786

Export/Marketing Contact:

Mr. Gerry Sullivan

Custom communications & control equipment and systems have been supplied to the power utility, telecommunications and transportation sectors by CVDS for the past 18 years. CVDS provides expertise in all-digital communications equipment based on advanced standards and technologies like ISDN, spread spectrum: radio, fiber optics and integrated voice & data LAN's.

Industry Sector: Transmission and Distribution (Miscellaneous)

Cyme International Inc.

1486 Ruberval Street, Suite 204

ST. BRUNO, Quebec

J3V 3P8

Tel: (514) 461-3655

Fax: (514) 461-0966

Export/Marketing Contact:

M. Richard Dourian

Cyme International is a world leader in developing and marketing comprehensive Power Engineering System Analysis software. Cyme's programs are used by electric utilities, industrial organizations, consultants and research or teaching institutions in more than 50 countries around the world. Cyme is a licensee and a partner in development with many organizations including Hydro-Quebec, Canadian Electrical Association, Coordination Inc. and Milsoft Integrated Solutions.

Industry Sector: Transmission and Distribution (Miscellaneous)



Industry, Science and Technology Canada

Industria, Sciences et Technologie Canada

Canada

F-P Electronics

6030 Ambler Drive
MISSISSAUGA, Ontario
L4W 2P1

Tel: (416) 624-3020

Fax: (416) 625-6197

Export/Marketing Contact:

Mr. Paul Manuel

Sales Manager

F-P Electronics manufactures electromagnetically controlled reflective disk display products for use in large information displays at electric power plants, airports, sports arenas, stock exchanges etc. F-P's datarama® system of status indicators is used for electrical utility control room applications. F-P Electronics also provides contact status multiplexer for data acquisition applications or alarm status monitoring. In addition to these manufacturing operations, F-P Electronics has a hard disk drive business with emphasis on refurbishment of seagate and miniscribe brand products.

All F-P Electronics reflective disk displays work on a method involving magnetic latching. Power is only required to change the information to be display - no power is required to maintain a message on a sign, resulting in very low energy consumption. In addition, F-P's displays have no consumable components and typically include disk mechanisms rated to over 100 million operations.

Industry Sector: Transmission and Distribution (Miscellaneous)

Harris Farinon Canada Inc.

657 Orly Avenue
DORVAL, Quebec
H9P 1G1

Tel: (514) 636-0974

Fax: (514) 636-9377

Export/Marketing Contact:

M. Levis Malenfant

Int'l Advance Marketing Manager

Harris Farinon Canada is a worldwide supplier of quality microwave products and systems for electrical utilities. Its capabilities range from system definition to complete turnkey installations. The company offers more than 50 analog and digital microwave products and systems for transmission of data, voice, and video, with more than 100,000 terminals in operation. Harris Farinon took a leading position in digital radio communication by developing efficient modulation techniques. It also developed FARSCAN™, a proprietary microwave network supervision system. The company's commitment to customer service and support is evidenced by its experienced field installation team, comprehensive customer training, contract maintenance services, and two-year product warranty.

Industry Sector: Transmission and Distribution (Miscellaneous)

Herbrand Tools Corporation

340 Dufferin Street
TORONTO, Ontario
M6K 1Z9

Tel: (416) 534-7943

Fax: (416) 537-1642

Export/Marketing Contact:

Mr. Eric D. Brooks

Marketing Manager

Herbrand Tools Corporation has been manufacturing electrical hand tools in Canada for more than 60 years. The company's product line now includes over 4500 tools for the professional mechanic and electrician. Products include electricians' knives, punches, belts cutters, and tool sets.

Industry Sector: Transmission and Distribution (Miscellaneous)

Instrumar Limited

P.O. Box 13246, Str 'A',
25 Pippy Place
ST. JOHN'S, Newfoundland
A1B 4A5

Tel: (709) 726-8460

Fax: (709) 726-8613

Export/Marketing Contact:

Mr. Robert Vivian

V.P. Marketing

Instrumar Limited is a company dedicated to the development, manufacture and sales of "smart" sensors for the measurement of material properties. Special emphasis is placed on ice and materials related to the prevention, detection, and/or removal of ice build-up on structures. A path through more than a decade of Arctic ice instrumentation research provides the base capability for this focus. Capabilities in product development are evidenced through receipt of several awards for innovation and the Silver Award for Industrial Design in 1988 from the Canada Awards for Business Excellence. Instrumar Limited manufactures the IM101 Ice Monitor. The IM101 is designed to detect conditions of surface accumulation, including ice accretion on hydro electric towers and conductors. Ice accretion has always been a problem with millions of dollars of damage incurred annually by utilities. This does not have to be accepted as a fact of life. Having detailed information on the on-set, duration, and cessation of freezing precipitation allows for a proactive approach. Information on icing can be used in the design phase of hydro line construction. Routes can be selected to avoid areas of severe icing. Where route selection is limited, the line specifications can account for the expected level of icing. This helps avoid overdesign or underdesign. For existing lines, icing information can be used to provide early warning of potential problems. This would allow crews to be mobilized to remove ice in certain areas or extra loads to applied to low voltage lines to melt ice. If neither of these options is practical, it is still



useful to put crews on standby or switch to alternate generating power to minimize the down time due to ice damage. The IM101 Ice Monitor solves these problems through measurement of the surface electrical impedance and temperature of a proprietary ceramic probe. This data is combined to sense the surface condition of the probe. A default icing window is programmed into each device and when the parameters fall within this window, an "icing" signal is triggered. The sensor then initiates an optional self de-icing cycle and/or control signal output. The IM101 has undergone two years of field and lab testing including the icing tunnels of the National Research Council of Canada and the Cold Regions Research Engineering Laboratory of the U.S. Army.

Industry Sector: Transmission and Distribution (Miscellaneous)

Positron Industries Inc.

5101 Buchan St.
MONTREAL, Quebec
H4P 2R9
Tel: (514) 345-2200
Fax: (514) 731-8662
Export/Marketing Contact:
Ms. Lily R. Gulrajani

Established in 1970, Positron Industries Inc., designs and manufactures state-of-the-art telecommunications systems and equipment. Over 15% of total sales revenue is devoted to research and development. Positron's high voltage protection and communication products are standard equipment in most of the larger utility and telephone companies in North America and are also exported worldwide. Positron is the winner of two IEEE "Best Product" awards and the Canada Export Award of the Government of Canada. Its range of products include Telephone and Radio Communication Consoles with full patching capability for dispatch offices and communication centers; Teleline Isolators for high voltage "ground potential rise" protection of wire line facilities entering power stations; defective power line isolator detector; audiotone protective relaying teleprotection products; portable Dosimeters that measure electromagnetic

field exposure and surveillance and remote alarm reporting SCADA systems.

Industry Sector: Transmission and Distribution (Miscellaneous)

Prism Systems Inc., Lentrionics Division

7025 Greenwood Street
BURNABY, B.C.
V5A 1X7
Tel: (604) 421-8700
Fax: (604) 421-8707
Export/Marketing Contact:
Mr. Michael J. Broderick P.Eng
Manager, General Sales

Prism Systems Inc. is a designer, manufacturer & supplier of products and associated EF&I services for telecommunications systems emphasizing application to the electrical utility industry. Products include microwave radio, multiplex, protective relaying, SCADA systems and associated products to provide turnkey integrated systems.

Industry Sector: Transmission and Distribution (miscellaneous)

Stephens Equipment Inc.

2750 Brabant Marineau
MONTREAL, Quebec
H4S 1L1
Tel: (514) 332-1230
Fax: (514) 331-2084
Export/Marketing Contact:
Mr. S. Allan Stephens
President

Stephens Equipment Inc. manufactures dryers and complete systems for the compression, storage, and distribution of non-corrosive gases. The company is a major supplier of compressed air systems for air blast circuit breakers and other power house needs for electrical utilities.

Industry Sector: Transmission and Distribution (miscellaneous)

TURBINES & TURBINE-GENERATORS

GE Canada (Hydroturbines and Generators)

795 First Avenue
LACHINE, Quebec
H8S 2S8
Tel: (514) 485-4046
Fax: (514) 485-4230/31
Export/Marketing Contact:
Mr. I.M. McKay
Manager-Turbine Sales, International

GE Canada designs and manufactures state-of-the-art hydroelectric generating equipment. Through the design and manufacturing facilities located in the provinces of Ontario and Quebec, GE Canada has supplied hydraulic turbines, hydrogenerators, transformers, exciters and bus ducts for major hydro projects throughout the world. The company's commitment to ongoing research and development programs has allowed for technological development that ensure the availability of state-of-the-art technology for these products. GE Canada's impressive list of installations include hydrogenerators totalling over 90,000 MVA and hydraulic turbines totalling almost 40,000 MW. Among the most notable installation on the list are the three - 826 MVA generators and the three - 612 MW Francis Hydraulic Turbines designed, manufactured and supplied by GE Canada for the Grand Coulee Project in the U.S.A. This is one of the largest hydraulic turbine and hydrogenerator installations in the world. GE Canada designed and manufactured hydro turbines and hydrogenerators are being installed in the world's major hydro projects including those in Argentine/Paraguay, China, India, Colombia, Venezuela, U.S.A. and Canada. GE Canada has supplied 3 Synchronous Generators totalling 675 MVA to the Chamera 1 project in India. GE Canada has earned a highly acclaimed reputation as a world class manufacturer of hydroelectric generating products. While recognized as a Canadian-based designer and manufacturer of hydroelectric generating equipment, GE Canada has

recently capitalized on its technology strengths through the development of technology transfer agreements within selected market areas.

Industry Sector: Turbine-generators, hydro

GEC Alsthom Electromecanique Inc.

9 place Commerce, Suite S
BROSSARD, Quebec
G4W 2V6
Tel: (514) 465-9795
Fax: (514) 465-3736
Export/Marketing Contact:
M. Pierre Seguin
Director of Marketing

GEC designs manufactures, and installs water wheel turbines, water wheel generators, synchronous condensers, erection and service facilities, and turbo alternators to 150 MW.

Industry Sector: Turbine-generators, hydro

Hydrolec Turbines Inc.

990 Rue André Linte
GRANBY, Quebec
J2J 1E2
Tel: (514) 378-0595
Fax: (514) 375-6367
Export/Marketing Contact:
M. Francois Berthiaume
Sales Manager

Hydrolec Turbines Canada supplies complete electromechanical equipment for hydroelectric projects ranging in output from 50 kW to 15 MW per unit.

Equipment supply includes any or all of turbines, generators, switchgear and electrical distribution, and control and SCADA equipment. Services include engineering, factory and field testing, installation, commissioning, and operator training. Hydrolec customers range from private developers and corporations to municipalities, utilities and national ministries, in North America and throughout the world. Hydrolec is a subsidiary of Neyrpic, world leader in

hydro turbines, and is a member of the GEC Alsthom worldwide group of companies.

Industry Sector: Turbine-generators, hydro

Harber Waterpower Products Ltd.

239 Barrick Road
PORT COLBORNE, Ontario
L3K 5Z5
Tel: (416) 835-5661
Fax: (416) 835-1733
Export/Marketing Contact:
Mr. Herb Overberry
Sales Manager

The company markets, designs and manufactures all types of turbines up to 25 MW for small and medium hydro applications. They frequently undertake "water-to-wire" projects where they assume responsibility for supply of all equipment related to a turbine-generation installation from intake to discharge on the water side and all electric associated with power generation, up to and including the connection to the grid.

Industry Sector: Turbines, hydro

DBS Escher-Wyss Inc.

555 Notre Dame Street
LACHINE, Quebec
H8S 2B1
Tel: (514) 485-2700
Fax: (514) 634-8644
Export/Marketing Contact:
M. Réal Boulé
Sales Manager

DBS Escher Wyss Inc. offices and plant, near Montreal, were established in 1980. With a decade of solid achievement in both domestic and export markets. DBS Escher Wyss Inc. has established itself as an innovator offering the very latest technology and quality products for Hydro-electric Generating Units. Currently the company focuses on the packaging of medium and small size generating plants, and on high performance replacement runners and

rehabilitation of existing units. The Hydro Package Group is centred around the company's proven expertise and engineering skills in designing, supplying and installing medium and small hydro turbines and complete equipment packages on a "water to wire" basis, particularly for low head application. The Rehabilitation Group offers products and services to upgrade existing hydraulic turbines and related equipment of all makes; to improve their performance, reliability, availability and/or to increase their life span. The extensive experience of the parent company, Sulzer Escher Wyss, a world leader in design of hydraulic turbines for over 180 years, combined with DBS Escher Wyss design, manufacturing and field installation capabilities provides customer with the very latest technology combined with quality products and services for hydro-electric generating stations.

Industry Sector: Turbines, hydro

Dependable Turbines Ltd.

#7 3005 Murray St.
PORT MOODY, B.C.
V3H LX3
Tel: (604) 461-3121
Fax: (604) 461-3086
Export/Marketing Contact:
Mr. Robert Prior
President

Established in 1978 Dependable Turbines designs and manufactures all types of hydro-electric turbines up to 5000 kW. The turbines are Pelton, Turgo, Francis and Propeller/Kaplan types. These are horizontal, vertical and incline units, ranging from standard designs with a wide variation of construction features for economical packages, to state-of-the-art packages. The company also provides complete water to wire packages from the turbine inlet value to the switch gear bus bar. With approximately 10 years of successful international projects, the company also provides complete installation supervision and commissioning.

Industry Sector: Turbines, hydro



Howden Group Canada

1510 Birchmount Road
SCARBOROUGH, Ontario
M1P 2G6

Tel: (416) 752-7310
Fax: (416) 752-0147

Export/Marketing Contact:

Mr. Bernard S. Chamberlain, P.Eng.
Vice President, Turbine Division

The company designs and manufactures steam turbines, turbine components, ventilation systems, air handling systems, mining equipment.

Industry Sector: Turbines, steam

Nova Energy Ltd.

#420, 1333 Hornby Str.
VANCOUVER, B.C.
V6Z 2C1

Tel: (604) 682-3160
Fax: (604) 682-3160

Export/Marketing Contact:

Mr. Martin J. Burger
Managing Director

Nova Energy Ltd. manufactures custom made power generator units from 5 kW micro power units to large ocean current 10 MW generating units. Nova has made a significant breakthrough in achieving new efficiencies in hydro power extraction.

The units extract electrical power from river current, tidal flows, or from the ocean's current. Four prototypes have been built and tested to date. Nova has successfully used aeronautical lift principles to design a new ultra efficient hydro turbine rotor, to generate renewable and cheap electrical power. Combined units form a simple enviro-benign mechanical system with outputs of 5 kw to 5000 megawatts. This use of aerospace technology is believed to be a sound solution to the problems of critical energy needs for many areas of the world.

Industry Sector: Turbines, hydro

Westinghouse Canada Inc. Power Generation Group

P.O. Box 2510, Str "A"/ 120 King Street West

HAMILTON, Ontario
L8N 3K2/L8P 4V2

Tel: (416) 528-8811

Fax: (416) 528-5833

Export/Marketing Contact:

Mr. L.W. Morgan

Regional Director

Westinghouse manufactures gas and steam turbines (to 100 MW), and refurbishes turbines.

Industry Sector: Turbines - gas and steam

WIRE AND CABLE

Alcan Wire and Cable

Box 269 Toronto Dominion Centre,
77 King Street West
TORONTO, Ontario
MSZ 1K1

Tel: (416) 860-4918

Fax: (416) 860-4807

Export/Marketing Contact:

Mr. Andrew J. Olbrycht
Export Manager

Alcan Wire and Cable is a division of Aluminum Company of Canada, Ltd. Montreal, Quebec. The company manufactures aluminum rod, electrical and mechanical, and bare aluminum conductor. The Wire and Cable Division's headquarter is located in Toronto and has seven plants across Canada equipped with the latest technology, manufacturing electrical grade rod as well as a full range of bare electrical conductors such as ASC, AASC, ACAB, COMPACT, ALPAC, and SDC for overhead transmission lines and insulated aluminum and copper cables overhead and underground, for utilities industrial, commercial and residential applications. The Wire and Cable Division also manufactures a variety of non-electrical aluminum wire, rod and bar products for deoxidizing, welding, Tig and

Mid. fencing, zippers, rivet stock, nails, etc.

Industry Sector: Wire and Cable

Alcatel Canada Wire Inc.

250 Ferrand Drive
DON MILLS, Ontario
M3C 3J4

Tel: (416) 424-5079

Fax: (416) 424-3329

Export/Marketing Contact:

Mr. Richard C. Gould
V.P. Int'l Sales and Marketing

In operation since 1911, Canada Wire produces a complete range of electrical power cables up to 345 KV. In addition the company manufactures specialized cables for the construction industry, oil, gas and petrochemical sectors, airfield lighting, appliance and automotive applications and transportation.

Manufacturing plants across Canada and joint ventures in South America and Europe ensure competitive and flexible service. The main powercable plant in Toronto has also recently been awarded the International Quality Assurance Accreditation ISO-9002 as well as CSA CAN 3 Z299.2.

Industry Sector: Wire and Cable

Cooper Industries, Belden Wire & Cable

130 Willmott Street
COBourg, Ontario
K9A 4M3

Tel: (416) 372-8713

Fax: (416) 372-6291

Export/Marketing Contact:

Mr. John Park
Marketing Manager

Belden Wire & Cable has a 200,000 square foot world class manufacturing plant located near Toronto, Ontario. This plant is only five years old & has the most up to date wire & cable manufacturing, computer supported machinery. Belden Wire & Cable manufactures a wide selection of electronic, electrical & industrial cables. This selection includes:



Industry, Science and Technology Canada
Industrie, Sciences et Technologies Canada



Hook-up wire, Multi & paired cables, LAN, Fiber Optic, Coax, Flat Cable, Process Control, Cords, Building wire, TECK 90, Tray & Armoured instrumentation & control cables.
Industry Sector: Wire and Cable

Deca Cables Inc.

150 North Murray St.
TRENTON, Ontario
K8V 5W6

Tel: (613) 392-3585
Fax: (613) 392-7908

Export/Marketing Contact:
Mr. Piero Di Pietrantonio
Vice President

Deca Cables Inc designs and manufactures a wide variety of electronic and electrical wire and cable. The company's product line includes multi-conductors, multi-pairs, coaxials and specialty cables. Among its many operations include drawing and annealing of copper and tinned coated copper, one of the few cable manufacturers in Canada to do so. Deca's cables are available in a number of CSA-approved and UL-listed insulation compounds including polyvinyl chloride (PVC), polypropylene and polyethylene insulations. The company mainly utilizes flame retardant FT-4 compounds required in today's market place. To facilitate and articulate awareness of quality, Deca has established a long-term quality process that incorporates the ideas of several management experts. Products line include satellite cable, high speed data cable (level 4), coaxial cables, instrumentation and computer cable, and fire-protective signal cable.

Industry Sector: Wire and Cable

Harbour Industries (Canada) Ltd.

1365 Industriel Blvd.
FARNHAM, Quebec
J2N 2X3

Tel: (514) 293-5304
Fax: (514) 293-2421

Export/Marketing Contact:
M. Marc Longpre

Harbour Industries (Canada) Ltd., which began operations in 1975, is a manufacturer of high temperature wires and cables. The products are high temperature wires and cables for commercial, industrial and military applications. These are insulated with Teflon (TFE & FEP), Tefzel, Halar, PFA, Kapton, PEEK, PES, Silicone rubber and 250°C, 1000°C high temperature specialty cables, sizes 32 AWG thru 4/0 AWG. Harbour holds many military specification approvals, including the following QPL approvals: MIL SPEC W-22759/1 thru /12, /16 thru /23, W-8777/, MS25471, W8777 /MS 27110 to 27500, C 27072, other MIL SPEC capabilities are W 81381, W 81822, MIL C 55021, W 16878, MIL-C17 as well as new shipboard cables application. Inspection facilities are to AQUAP4. The company has complete UL and CSA approvals on all popular Teflon, Silicone rubber, and high temperature glass braided constructions for appliances, fixtures, motor leads, equipment wire etc... Customs services include designing and construction of specialty cables, sodium etching, special bonding and custom marking and printing. Major markets include aircrafts, missile, communication appliances, medical, electronics, chemicals and petro-chemicals, utilities, paper, railroads, lighting electrical machinery, steel industries and nuclear plants. These are reached through direct OEM and distributor sales.
Industry Sector: Wire and Cable

Heron Cable Industries Limited

440 Phillip Street
WATERLOO, Ontario
N2J 4C3

Tel: (519) 885-2850
Fax: (519) 885-5460

Export/Marketing Contact:
Mr. George Alexiou
Sales and Marketing Manager

Heron Cable Industries is a North American leader in the custom manufacture and supply of resistance wire products. The product line includes: freeze protection products including electric pipe heating cables, roof de-icing cables and construction grade cable for snow and ice melting applications in asphalt and concrete, custom-designed resistance wire e.g. battery blankets, refrigerators block heater cords for the automotive industry, electric soil heating cables, and portable electric space heaters. Within Canada, Sentinel heat producing products for the consumer market are represented in all major hardware, lumber, plumbing and distributor outlets. In the United States, the company is represented by an affiliated company, Easy Heat Inc. ranking Heron among the top in its field there. Trade names in Canada are Sentinel for the consumer products line and Easy Heat for the industrial products. At Heron Cable the emphasis has always been on quality and customer service.
Industry Sector: Wire and Cable

Phillips Cables Limited

550 King Street
BROCKVILLE, Ontario
K6V 5W4

Tel: (613) 345-5666
Fax: (613) 345-7596

Export/Marketing Contact:
Mr. T.P. Bohm
V.P. Internal Sales

Phillips Cables manufactures all types of electrical wire and cable products complying to CSA and international standards. The company is part of the

BICC Group of companies, with many factories in Canada and the U.S.A. Its offices are in Brockville and Toronto. Its international sales personnel are versatile with many languages and familiar with exports throughout the world. Products include cables for the petrochemical and oil producing companies; special cables for mining (underground and open pit applications); all types of telephone cables and instrument cables, with or without armour and manufactured to specifications; Power cables up to 69kV to FPCEA or ICE Standards.
Industry Sector: Wire and Cable

Pirelli Cables Inc.

425 St. Louis
 ST-JEAN SUR RICHELIEU, Quebec
 J3B 1Y6
 Tel: (514) 658-1731
 Fax: (514) 349-6862
 Export/Marketing Contact:
 M. Roch Goulet
 Export Manager

Pirelli Cable has been manufacturing electrical cables in Canada since 1953 and is affiliated with the Pirelli Group involved world wide. Pirelli has supplied cables with voltages up to 138KV (solid dielectric insulation) and 345 KV (for paper insulated cables), serving the needs of the following markets: mines, pulp and paper, petrochemical, industrials, utilities, and the housing sector. Pirelli also manufactures telecommunication products.
Industry Sector: Wire and Cable

Pirelli Cables Inc.

13340 - 76th Avenue
 SURREY, B.C.
 V3W 2W1
 Tel: (604) 591-3311
 Fax: (604) 591-2292
 Export/Marketing Contact:
 Mr. Shawn Davidson
 Marketing Manager

At its Surrey plant Pirelli manufactures copper telephone cable (outside plant and indoor PVC) and fibre optics (indoor and outdoor)
Industry Sector: Wire and Cable

**Pyrotex/A Division of
 Phillips Cables Ltd.**

250 West St.
 TRENTON, Ontario
 K8V 5S2
 Tel: (613) 392-6571
 Fax: (613) 394-3711
 Export/Marketing Contact:
 Mr. J.C. Patton
 Export Manager

Pyrotex is a company specializing in all types of Mineral Insulated electric cables. Over 30 years of experience has gone into these products which are in use in many countries. A highly qualified staff of engineers and technicians is ready to assist and advise the customer. Pyrotex has sales offices in major cities across the U.S. and Canada and exports to more than 30 countries. The Mineral Insulated or M.I. cables, as they are called, include wiring, heating & thermocouple cables. Through an ongoing research & development program Pyrotex recently introduced an improved power for the insulant, a breakthrough for superior cable performance.
Industry Sector: Wire and Cable

Reynolds Cable Company Ltd.

500 Milloux Blvd
 MALBAIE (CHARLEVOIX), Quebec
 G5A 1N4
 Tel: (418) 439-3916
 Fax: (418) 439-4841
 Export/Marketing Contact:
 M. George Voyer
 Vice-President Sales

The company manufactures aluminum conductors (bare ACSR, ASC, AASC, AAACSR, ACAR); aluminum flat wire; and aluminum re-draw rod.
Industry Sector: Wire and Cable

WIRING DEVICES

Anamet Canada Inc.

P.O. Box 550, Lakeport Road
 COLBORNE, Ontario
 K0K 1S0
 Tel: (416) 355-2122
 Fax: (416) 355-3110
 Export/Marketing Contact:
 Mr. Bev. R. Thew
 President

Anamet Canada Inc. manufactures flexible electrical conduit of all types and sizes. Included in the product range are conduit fittings, vibration eliminators, and plastic conduits.
 Reg. trade names: Sealtite, Flexpipe, Anaconda, Conseal, Flexlube, & Shieldtite
Industry Sector: Wiring Devices



Industry, Science and Technology Canada / Industrie, Sciences et Technologie Canada



Brockton Electronics Ltd.

1330 Kootenay St.
VANCOUVER, B.C.
V5K 4R1
Tel: (604) 291-6665
Fax: (604) 291-6664
Export/Marketing Contact:
Mr. Keith Henderson

Brockton Electronics Ltd. was established in 1988, and manufactures a wide variety of custom cable assemblies (E.G. computer, control), wire harnesses and wiring assemblies. The company provides contract manufacturing services to manufacturers and end-users in the electronic, electrical, utility, computer and machinery industries. Brockton can provide design assistance including CAD, and complete turnkey service for any size job. These services include cut & strip service, faceplate & chassis wiring, and electromechanical sub-assemblies.
Industry Sector: Wiring Devices

Columbia/MBF

7555 Tranmere Drive
MISSISSAUGA, Ontario
L5S 1K4
Tel: (416) 678-9191
Fax: (416) 678-9323
Export/Marketing Contact:
Mr. Paul R. Goldup

Columbia/MBF is a leading Canadian manufacturer of steel conduits and accessories for the electrical market. These products are all CSA and UL approved. Columbia/MBF have two manufacturing plants in Canada, one in Quebec and the other at the above address.
Industry Sector: Wiring Devices

Commander Electrical Materials Inc.

100 Longuin Street
ST-JEAN-SUR-RICHELIEU, Quebec
J3B 3G5
Tel: (514) 347-2304
(514) 861-5429 (Montreal)
Fax: (514) 347-8076
Export/Marketing Contact:
Mr. B.J. MacDonald
Export Manager

Commander is a manufacturer of the Iberville line of electrical construction materials - a Canadian leader in the design and production of metallic outlet boxes, covers and accessories. Also manufacture a range of related connectors, bushings, cord grips, teck connectors, grounding bushings, locknuts, reducing bushings, set screw connectors and couplings, etc. The company's roots go back to 1913.
Industry Sector: Wiring Devices

Crouse-Hinds Canada Limited

1160 Birchmount Road
SCARBOROUGH, Ontario
M1P 2B9
Tel: (416) 757-8781
Fax: (416) 757-2330
Export/Marketing Contact:
Mr. George Will

The company manufactures industrial wiring devices; industrial lighting; explosion proof plugs and receptacles; explosion proof motor control; customized boxes; explosion proof fittings; explosion proof apparatus; molded products.
Industry Sector: Wiring Devices

Dilor Architectural Dimming Systems

P.O. Box 2169 - 37749 Second Ave.
SQUAMISH, B.C.
V0N 3G0
Tel: (604) 892-9301
Fax: (604) 892-3052
Export/Marketing Contact:
Mr. Philip Coe

Dilor was established in the mid 70's and manufactures electronic (SCR) dimmers, the related electrical distribution, and both digital and analogue controls for these dimmers. The equipment supplied is very high quality and very competitive. Dilor also does a significant amount of layout and design ensuring large projects are completed on time and on budget. Dilor's focus is on architectural dimming and the major market has been in supplying complete dimming and control systems to the resort/ convention hotel market. Controls for these facilities must be flexible, easy for the casual user to operate, and reliable. Dilor markets its systems through manufacturer's agents throughout North America.
Industry Sector: Wiring Devices

E.D. Products Limited

380 Vansickle Road, Unit 530-540
ST. CATHARINES, Ontario
L2R 6P7
Tel: (416) 682-9261
Fax: (416) 682-0131
Export/Marketing Contact:
Mr. Joe DeMan

E.D. Products was established in 1983 to make electrical wire harnesses and cable assemblies for the vending machine industry. EDP quickly expanded to provide a quality service to many other industries. Their assemblies go into switch controls, control panels, dishwashers, vacuum cleaners, and handling equipment. All products are CSA and UL approved. EDP also does electrical and mechanical assembly, drilling, tapping and precision soldering. The company has received awards for quality and service. EDP has



automatic equipment for wire cutting, hot-stamping and terminating. All assemblies are tested with computerized cable scanners.

Industry Sector: Wiring Devices

Eastern Wire and Conduit Ltd.

55 Valleywood Drive
MARKHAM, Ontario
L3R 5L9

Tel: (416) 474-1693

Fax: (416) 474-9221

Export/Marketing Contact:

Mr. D. Mannarino
V.P. Marketing

The company manufactures flexible liquid tight conduit type UL, EF, CSA, made from aluminum or galvanized steel.

Industry Sector: Wiring Devices

Electro Canada

30 Tycos Drive
TORONTO, Ontario
M6B 1V9

Tel: (416) 785-6070

Fax: (416) 785-6078

Export/Marketing Contact:

Mr. Ron McNally
Sales Manager

Electro Canada manufactures CSA/UL approved moulded power cords, extension cords, wiring harmer & cable assemblies. The company has supplied products to the appliance, business machine, automotive, electrical & electronics markets for the past 20 years. Electro Canada is also the exclusive manufacturer of the new "FLAT PLOG".

Industry Sector: Wiring Devices

Erico Canada Inc.

46 Ingram Drive
TORONTO, Ontario
M6M 2L6

Tel: (416) 249-3363

Fax: (416) 249-5488

Export/Marketing Contact:

Mr. L.S. Simon, P.Eng.
General Manager

Erico Canada Inc. has been in business for forty years and over this period of time has developed a reputation as a reliable manufacturer and supplier of high quality products, covering a broad spectrum of electrical needs. Erico has developed a world wide reputation for electrical fasteners, connectors, grounding and bonding materials, power jumpers, cables and specialty flexible jumpers.

Industry Sector: Wiring Devices

Fleck Manufacturing Inc.

91 Lincoln Street
TILLSONBURG, Ontario
N4G 2P9

Tel: (519) 842-9063

Fax: (519) 842-8335

Export/Marketing Contact:

Mr. Harrison Hadwen
Sales & Marketing Manager

For more than thirty years Fleck has served the wiring needs of original equipment manufacturers worldwide. With a large presence in the N.A. appliance, vehicle, and electronic wiring markets, Fleck has established a strong reputation for engineering, quality systems, and low cost manufacturing shipping from 5 key plant locations spread across Canada, the USA and Mexico. Fleck now exports to Europe, the Middle East and Australia. Products include wiring harnesses, power cords, fibre optic patch cords, resistance heaters, medical cords, data interface cords, computer interconnect cords, and a variety of value added assemblies using wiring sub-assemblies.

Industry Sector: Wiring Devices

FRE Composites Inc.

350-1223 Michael St. N.
GLOUCESTER, Ontario
K1J 7T1

Tel: (613) 745-4464

Fax: (613) 745-1598

Export/Marketing Contact:

Mr. Richard Game

As a former division of G.E. Canada, FRE Composites is now a privately held, Canadian owned company specializing in the design and manufacture of advanced composite products for the electrical, industrial & aerospace markets. FRE's electrical distribution network spans all continents in the world.

Products include:

- FRE fiberglass conduit
- FRE phenolic fiberglass cable tray
- Fiberglass DSM for fibre optic cables
- Fiberglass/composite electrical/fusing components

Industry Sector: Wiring Devices

Hubbell Canada Inc.

870 Brock Road South
PICKERING, Ontario
L1W 1Z8

Tel: (416) 839-1138

Fax: (416) 839-9108

Export/Marketing Contact:

Mr. W.W. Burch
V.P. and Manager Commercial & Industrial (C & I) Division

The company manufactures adaptors, arrestors, lighting transmission, ballasts, boxes, brackets, buttons, clamps, connectors, fibre optics, fittings, fixtures, hardware, post insulators, lighting fittings, lights, pedestals, plates, outlets, receptacles, supports, switches, taps, undercarpet wiring and wiring devices.

Industry Sector: Wiring Devices



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Canada 100

La Compagnie De Profiles Reynolds

305 Boul. Labelle/B.P. 150
STE-THERESE, Quebec
J7E 4H7/J7E 2X8
Tel: (514) 435-6551
Fax: (514) 435-0679
Export/Marketing Contact:
M. Michel Kcinski
Sales Manager

Reynolds manufactures aluminium made electrical products, including aluminum extrusions, connectors, tubular bushings, bus bar, tubing, drawn tube, and aluminum conduit.

Industry Sector: Wiring Devices

Leviton Manufacturing of Canada Ltd.

165 Hymus Blvd.
POINTE-CLAIRE, Quebec
H9R 1G2
Tel: (514) 954-1840
Fax: (514) 954-1853/4
Export/Marketing Contact:
Mr. Howard Pollock

Leviton Manufacturing Co. Ltd. came into existence in 1906 as a pioneer in the Electrical Wiring Devices industry. Today, Leviton is a leader and innovator in all Wiring Device areas including switches, receptacles, wallplates, lampholders, decorator styles devices, surge suppression devices, power-line carrier and telecommunication devices, passive infrared motion detector and lighting control (dimming) devices, etc.

Industry Sector: Wiring Devices

Lumitrol Ltd.

253 Merton St.
TORONTO, Ontario
M4S 1A7
Tel: (416) 485-4817
Fax: (416) 485-4826
Export/Marketing Contact:
Mr. Bruce Whitehead
President

Lumitrol Ltd., established in 1974, designs and assembles complete stage lighting control and stage drape systems for school, university, theatre, AV and TV studio, church, and miscellaneous applications. The firm also designs and distributes an innovative architectural dimmer system, manufactured in Canada by a related company. Most projects undertaken are designed for architects or consulting engineers and relate to new construction, however, the firm's owner has recently established a separate engineering firm to undertake small renovation projects and safety inspections of theatrical stages. Products manufactured include large capacity incandescent light dimmers (1800 W and over), related preset or manual controls, custom control systems for lighting loads, and theatrical drapes and support systems.

Industry Sector: Wiring Devices

Nocom Manufacturing Ltd.

105 Willowlea Road
CARP, Ontario
K0A 1L0
Tel: (613) 831-8102
Fax: (613) 831-8103
Export/Marketing Contact:
Mr. Terry E. Dodds
President and CEO

Nocom Manufactures modular wiring systems (MWS) for the commercial, industrial, institutional, and residential sectors. Nocom's R&D center has developed advanced, patented MWS systems that are most flexible, versatile and economical. Product lines include fixture interceptors, starter cable sets, joiner cable sets, switching interceptors,

switching cables, and fixture interceptor caps. The Nocom modular wiring system has been introduced in the United States and the United Kingdom. The company is presently finalizing its market strategy for these and other world markets.

Industry Sector: Wiring Devices

Pilgrim Technical Products Ltd.

6815 Columbus Road
MISSISSAUGA, Ontario
L5T 2G9
Tel: (416) 564-3288
Fax: (416) 564-3306
Export/Marketing Contact:
Mr. Alistair Gogan
President

A 100% Canadian owned and operated company established 1969, and is currently operating out of a new 55,000 sq.ft manufacturing plant next to Toronto's International Airport. Pilgrim manufactures cable trays, cable support systems, strut, pipe, cable & conduit clamps, aluminum, stainless, non-metallic and hot dip galvanized steel cable trays are the most comprehensive range in North America. Pilgrim sells throughout Canada and has agents in the U.S., Turkey, Thailand, Singapore, and Hong Kong and exports to these countries as well as South America, Africa & India.

Industry Sector: Wiring Devices

Polytech Electrical Products

8433 Lougheed Highway
BURNABY, B.C.
V5A 1X4
Tel: (604) 421-7555
Fax: (604) 421-4101
Export/Marketing Contact:
Mr. Sandy Michie
President

Polytech Electrical Products is a division of Pacific Rim Polytech Corp., a privately held company incorporated in British Columbia, Canada. The company has its headquarters and manufacturing operations in a 27,000 square foot facility



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Canada

located in Burnaby, B.C. Polytech's Electrical Division fabricates electrical cabletray, fittings and accessories from extruded aluminum and steel raw materials. In addition to cabletray, this division also fabricates aluminum highway traffic control arms - used at railway crossings and similar vehicular control locations. Standard products include aluminum, steel and stainless steel cable tray, and instrumentation channel. Custom products include cable bus, and maple cable blocks.

Industry Sector: Wiring Devices

R&S Enviro Products Limited

Boyers Road
KESWICK, Ontario
L4P 3E9

Tel: (416) 476-5336
Fax: (416) 476-0475

Export/Marketing Contact:
Mr. John Rye
Vice President

R&S Enviro Products Limited manufactures a line of Air Tight and Moisture Proof electrical boxes for new construction as well as Retrofit Liners for existing electrical boxes. These products are specifically designed to eliminate air flow and moisture problems in electrical boxes in new and existing housing. R&S Enviro Products Limited is dedicated to manufacturing energy efficient products for the construction industry. Products include Air Tight Switch Boxes°, Air Tight Ceiling Boxes°, Air Tight Double Gangs°, Retrofit Liner (single)°, and Retrofit Liner (double)°.

Industry Sector: Wiring Products

Robroy Industries Limited

McLean Road RR#3
GUELPH, Ontario
N1H 6H9

Tel: (519) 763-1432
Fax: (519) 763-1175

Export/Marketing Contact:
Mr. George Vincent
Pres. & G.M.

Robroy Industries has been a supplier to industry of quality corrosion resistant electrical products since 1905. Products include "Plasti-Bond Red", PVC coated exterior and urethane interior coated conduit and fittings, Stahlin Fiberglass Enclosures, Electromate Stainless Steel, Steel and Aluminum Enclosures, Rob-Glas Fiberglass cable tray with Fiberglass Strut Support Systems and CAB PVC Coated Hooks and Hangers for all industrial cable installations. Robroy Industries' products are UL/CSA approved, with high technology equipped engineering support available for all industrial applications.

Industry Sector: Wiring Devices

Scepter Mfg. Co. Ltd.

11 Bermondsey Road
TORONTO, Ontario
M4B 1Z3

Tel: (416) 751-3820
Fax: (416) 751-7112

Export/Marketing Contact:
Mr. Bob Dicker
Electrical Marketing Manager

Scepter manufactures and markets nonmetallic electrical conduit, tubing, ducting, fittings, nonmetallic industrial light fixtures and custom nonmetallic enclosures. An industry leader in Canada of providing electrical raceways and components from engineered resins. This has established Scepter with 7 manufacturing locations, as one of the premier processors of plastic materials in North America.

Products include:

PVC Conduit, Tubing, Duct, Fittings,
Weatherproof Boxes and Covers, Custom

enclosures, Incandescent and °Fluorescent Light Fixtures.

Industry Sector: Wiring Devices

Shawflex Inc.

25 Bethridge Road
REXDALE, Ontario
M9W 1M7

Tel: (416) 743-7111
Fax: (416) 743-7199

Export/Marketing Contact:
Mr. Terry W. Sutton
Manager - Marketing

Shawflex Inc., a Shaw Industries company, manufactures a broad range of instrumentation, control and small power cables for industrial and utility applications. Additionally, the product range includes thermocouple cable, tray cable and hazardous locations cables. Most constructions are CSA Certified and quality assurance is to CSA Z299.3. Shawflex also produces instrumentation tubing bundles in both metal and plastic plus a line of hydraulic hoses, couplings and assemblies with ratings up to 10,000 psi.

Products include:

- Instrumentation & Control cables
- Thermocouple cable
- TECK 90 Tray Cable
- Elastic tubing & bundles
- Pre-insulated tubing
- Hydraulic hose & couplings
- Hydraulic hose assemblies

Industry Sector: Wiring Devices



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Canada

Smith & Stone (1982) Inc.

2 Glen Road
GEORGETOWN, Ontario
L7G 2P4

Tel: (416) 457-6000

Fax: (416) 457-6886

Export/Marketing Contact:

Mr. Bill Savage

V.P. Sales & Marketing

Smith and Stone has been in business for over 70 years. A Canadian owned company, it offers a wide range of electrical wiring devices for the residential and spec grade construction industry.

Switches, receptacles, wall plates, caps and connectors are some of the products sold directly from factory to retail as well as through the wholesales distribution network of the parent company, Hammond Manufacturing.

Industry Sector: Wiring Devices

Temco Electric Products Company Inc.

4700 Aniens St.
MONTREAL-NORTH, Quebec
H1H 2H8

Tel: (514) 322-3543

Fax: (514) 322-1840

Export/Marketing Contact:

Mr. Brad Ryan

Temco designs and manufactures metallic outlet boxes and covers, wall plates and accessories, and distributes these products nationally. The company was founded in 1937 and is a Canadian owned supplier of this product line. Manufacturing facilities are located in Montreal, with warehousing in Toronto and representation across Canada. Products include: switch boxes, outlet boxes, covers, masonry boxes, concrete rings, utility boxes, and custom wall plates.

Industry Sector: Wiring Devices



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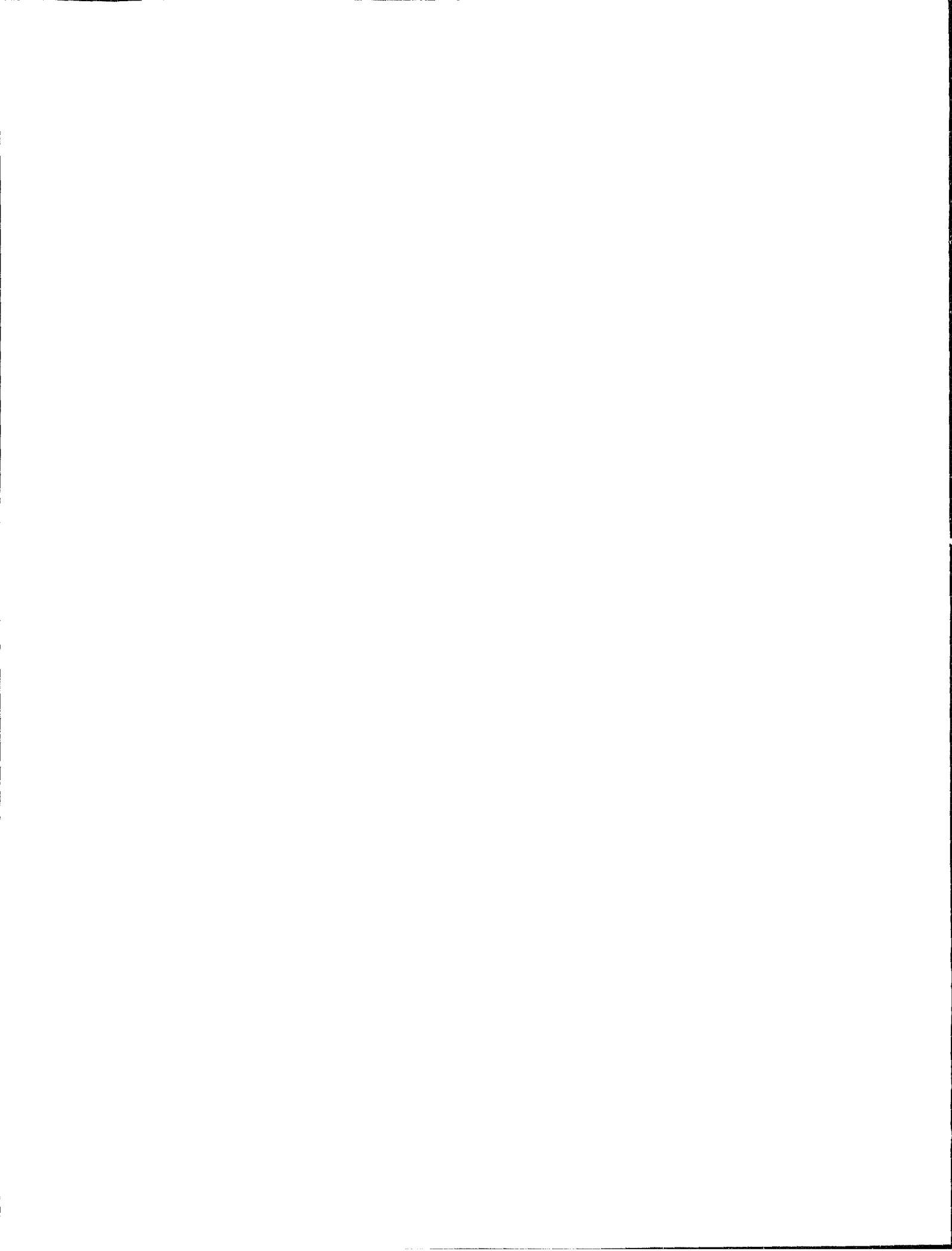
The wordmark logo for Canada, featuring a stylized maple leaf above the word "Canada".

OIL AND GAS EQUIPMENT MANUFACTURERS AND SERVICES



Industry, Science and Technology Canada Industrie, Sciences et Technologie Canada





Introduction

Canada is a country rich in energy resources. Abundant deposits of oil, natural gas, coal and uranium, plus many rivers and vast forests all contribute to making Canada a major producer of energy. Heavy oil and sour gas both make up a major part of Canada's larger hydrocarbon reserves. However, many of these deposits are found in formations and locations where production is difficult. Canada's harsh environment adds still another dimension to the requirement for the development of special advanced technology by the Canadian companies that manufacture equipment or provide services to the oil and gas industry. From a production and equipment design standpoint, the country's extreme climatic and physical conditions will not allow the industry to settle for anything less than the best.

The Canadian oil and gas equipment industry produces a wide range of machinery and equipment for oil and gas exploration and development and also performs related service activities such as geophysical evaluation, seismic studies and contract drilling. Specific areas where Canada is acknowledged as a strong equipment supplier include exploration, drilling, leasehold facilities, dehydration, secondary recovery, sour-gas gathering and treatment, heavy oil technology, and pipelines and related compression and pumping equipment. Noteworthy export strengths include exploratory and deep drilling rigs, workover rigs, thermadrive boilers, beneficiation equipment, gas turbines, compressors, heat exchangers, pump jacks, and steam generators.

Bordered by three oceans, Canada has methodically plotted a progressive, scientific exploration and development of its rich continental shelves to the point where Canadian industries can now successfully handle offshore projects from start to finish.

Canada has also taken precautions to protect the natural surroundings and preserve the land and has developed conservation guidelines, environmental protection technology and equipment that are among the most advanced in the world. Canada is ready to share this knowledge with other countries because conservation is a mutual concern.

Another area of Canadian competence is in the service field where there is expertise in a broad range of specialties such as leak detection, corrosion prevention, geodesic surveys, photogrammetric surveys, communications precise gravity surveys, mapping, seismic studies and marine research.

Canadian manufacturers produce and export a broad range of machinery and equipment for the refining and petrochemical industries. Columns, fractionators and catalytic converters; pressure vessels and tanks; reactors; heat exchangers; distillation equipment; cryogenic vessels; compressors, pumps, valves and steam generating equipment are some examples of the types of equipment marketed internationally by Canada. In this field, Canada provides specialized services and equipment for the construction, testing and inspection of pipelines. In addition, Canadian consultants and construction companies have the capability to provide complete petroleum refineries, petrochemical and chemical projects, including feasibility studies, process equipment packaged systems, design, procurement, construction, commissioning and training.

With its practical experience in meeting the most challenging demands of the Canadian oil and gas production industry, Canada has the expertise to provide the wide range of equipment and services outlined in this directory.

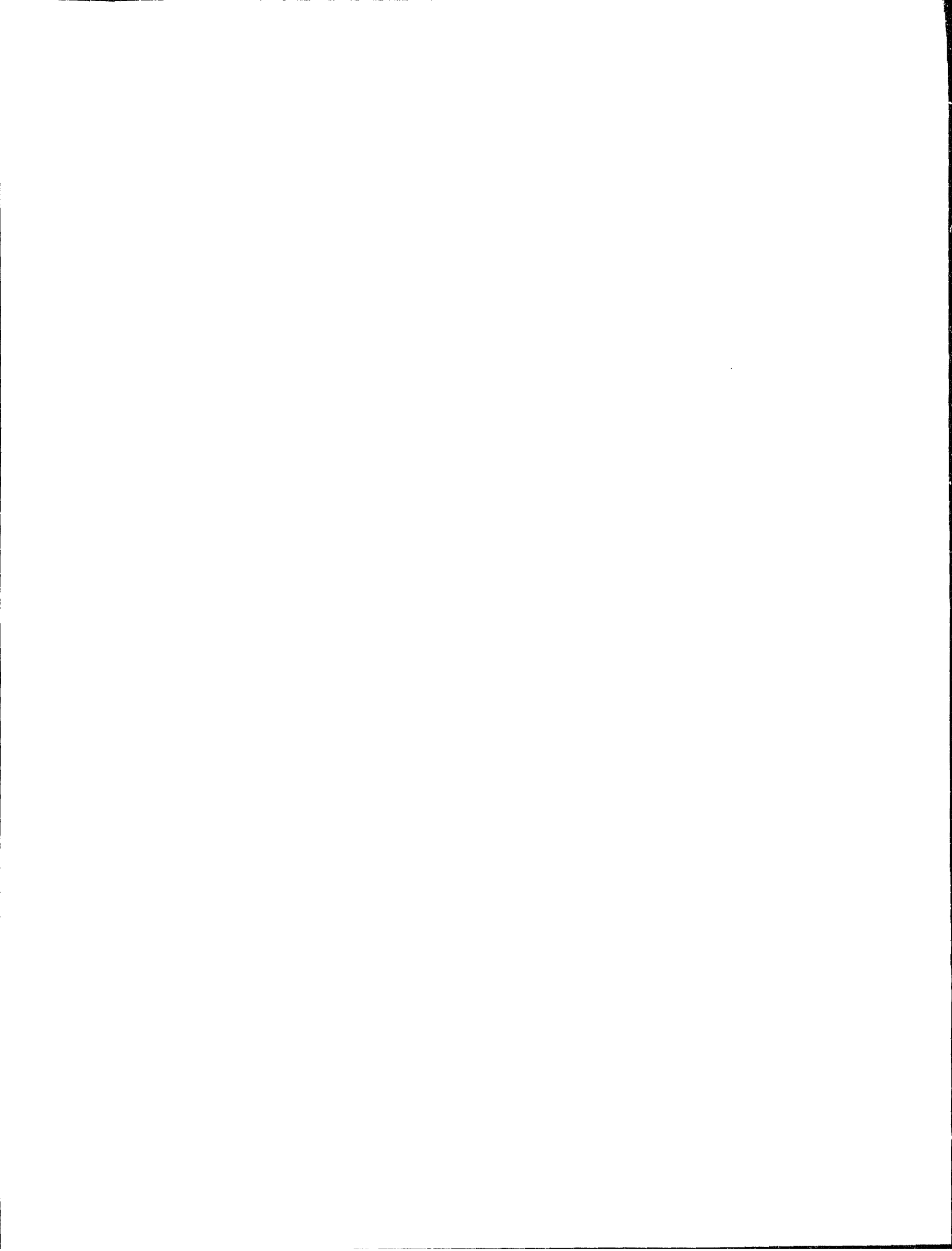


Industry, Science and
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Canada



Alphabetical Listing of Companies

081639 Ontario Limited, Northway Industries Division
264333 Alberta Ltd., Wabash Oilfield Service Division
303007 Ontario Ltd., Forex Machine and Tool Co. Division
3-L Filters Limited

A. Comeau & Associates Ltd.
A.R.D. Industries Ltd.
Acier A/N Steel Inc.
Acres International Limited
Adlog Inc.
AGAT Laboratories
AIM Safety Company Inc.
Alberta Compressor Valve Co. Ltd.
Alco Gas & Oil Production Equipment Ltd.
Allen-Bradley Canada Limited
Almecon Industries Limited
Alpine Subsurface Electronics Inc.
AMS Industries Ltd.
Aqua-Guard Technologies Inc.
Argo Sales Ltd.
Associated Corrosion Consulting Ltd.
Atlantic Engine Rebuilders Ltd., MFM Industries Division
Atlantic Towing Ltd.

B&W Technologies Ltd.
Bailey Canada Inc.
Baker Hughes Canada Inc., Milpark Drilling Fluids Division
Banister Inc., Footage Tools Division
Barber Industries Ltd.
Baroid Corporation of Canada, Ltd.
BeauDril (1987) Limited
Bedarco McGruer Inc.
Bennett Environmental Consultants Ltd.
Bercha International Inc.
Beta Monitors & Controls Ltd.
BMP Energy Systems Ltd.
Bombardier Inc.
Bovar Inc., Mainland Manufacturing Division
Bovar Inc., Western Research Division
BPB Instruments (Canada) Ltd.
Bristol Babcock
Brittania Compression Industries Ltd.
Brooke Ocean Technology Ltd.
Bzh Petroleum Consultants Ltd.

C.M.E.L. Enterprises Ltd.
CAE Machinery Ltd.
CAEC Arctic Engineering Inc.
Camrose Electric Controls Ltd.
Canadian Blower/Canada Pumps Limited
Canadian Foremost Ltd.
Canadian Fracmaster Ltd.
Canadian International Fluid Services Inc.
Canadian Marine Drilling Ltd.
Canadian Rig Ltd.
Canadian Swabmaster Products Ltd.
Canadian Tool & Die Ltd.
Canadoil Forge Ltée
CanOcean Engineering Limited
Canpolar Inc.
Canspec Group Inc.
Cantech Environmental Systems Inc.
Canterra Equipment Inc.
Canuck GIE Engineering Ltd.
Capilano Geophysical Ltd.
Caproco (1987) Limited
Cardium Tool Services Inc.
Catalytic Maintenance Inc.
Centre for Frontier Engineering Research
Century Valve and Machine Co. Ltd.
Cessco Fabrication and Engineering Ltd.
CH2M Hill Engineering Ltd.
Challenger International Services Ltd.
Challenger Surveys & Services Ltd.
Chambers Engineering Ltd.
Chase Manufacturing Inc.
Chimo Equipment Ltd.
Chimo Polyurethanes Ltd.
Chinook Industrial Supplies Ltd.
Cis Can Sales (Western) Ltd.
Computalog Ltd.
Condor Machinery (1985) Ltd.
Control Engineering Inc.
Corrosion Service Co. Ltd.
Cougar Tool Inc.
CPW Valve & Instrument Ltd.
Cryogas Engineering Ltd.
Cullen Canadian Inc.

D&S Petroleum Consulting Group Ltd.
D.B. Robinson Design & Manufacturing Ltd.
Dacro Industries Ltd.
Datek Industries Limited
Delta Projects Inc.
Diamant Boart Stratabit Ltd.
Digitech Information Services Ltd.
Dilcon Constructors Ltd.
DIPIX Technologies Inc.
Double T Equipment Manufacturing Ltd.
Dover Corporation (Canada) Ltd., Alberta Oil Tool Division
Dreco Energy Services Ltd.

Dresser Canada Inc., Dresser Pump Division
Drill-Rite Industries (1985) Ltd.
Drilltel Systems Limited

ECS-Power Systems Inc.
El-Mac Pacific Distributors Ltd.
Emery Apparel Canada Inc.
Ener-Rig Electrical Supply Ltd.
Environmental Technologies Inc.
EnviroSeal Engineering Products Ltd.
Epton Industries Inc.

F C Manufacturing Ltd.
Farr Canada Ltd.
Fintube Inc., Biraghi Canada Division
Fleming Oilfield Services Ltd., Reef Mud Division
Fluor Daniel Canada, Inc.
Foothills Diamond Coring Ltd.
Four M Oilfield Services Ltd.
FRC Composites Limited
FRE Pultrusions Inc.
Frontier Engineering & Consulting Ltd.

Galaxy Oilfield Service Ltd.
Gentronics Petroleum Services Limited
Geonautics Limited
Geopetrol Marketing & Distributing Ltd., North-Tech Environmental Division
Geophysics GPR International Inc.
George E. Failing Supply Company
Geotechnical Resources Ltd.
Global Thermoelectric Inc.
GN Corporations Inc.
Gris Gun Manufacturing Ltd.

Hall Compressors Canada Limited
Hangwell Coil Tubing Services Ltd.
Hardy BBT Limited
Henderson, Barwick Inc.
Hi-Point Industries Ltd.
Hobic Oil Bit Industries Corp.
Hooper Welding Enterprises Limited
Hutchinson Body, Mudguard and Radiator Works Ltd.
Hycal Energy Research Laboratories Ltd
Hyprotech Ltd.

I.M.W. Industries Ltd.
I.P. Constructors Ltd.
ICI Construction Economists of America, Inc.
Imperial Rubber Co. Ltd., Girard
Polly-Pig Canada Division
Import Tool Corporation, Ltd.
Indutech Canada Limited
Integra Castings Inc.



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Canada

INTERA Information Technologies Corporation
 Intercomp Resource Development & Engineering Ltd.
 International Cooling Tower Inc.
 International Hard Suits Inc.
 International Pipeline Engineering Limited
 International Radiography and Inspection Services (1976) Ltd.
 IPSCO Inc.
 Iron Horse Compression Ltd.
 Isko Heat Exchangers Ltd.
 Island Sandblasting (1987) Ltd.
 ITT Canon Canada Limited
 ITT Industries of Canada Ltd., ITT Barton Instruments

 Jacques, Whitford Group Ltd.
 Jacques/McClelland Geosciences Inc.
 John T. Hepburn, Limited

 Kilborn Inc.
 King Equipment Manufacturing Corp.
 Koch Engineering Company Limited
 Kubota Metal Corporation, Fahramet Division
 Kudu Industries Inc.

 Labsoft Inc.
 Lambton College—Fire, Safety, and Environmental Division
 Lantec Industries Inc.
 Lift Systems International Ltd.
 Lister Industries Ltd.
 Luff Industries Ltd.
 Lynx Tool Company Ltd.

 M & M Manufacturing Ltd. Partnership
 MacDonald Engineering Group Ltd.
 MacLaren Plansearch Limited
 Maloney Steel Ltd.
 Mandarin Oilfield Services Ltd.
 Marshall Macklin Monaghan Limited
 Marystown Shipyard Limited
 Master Flo Valve Inc.
 Matt's Manufacturing Ltd.
 McDaniel & Associates Consultants Ltd.
 McElhanney Geosurveys Ltd.
 Mega Engineering Ltd.
 Metro International Trading Company
 MIL Group Inc.
 Milton Roy Industries Ltd.
 Mitrade Export Inc.
 Monenco Limited
 Morris International Trading Ltd.

 Nabors Drilling Limited
 Nardei Fabricators Ltd.

National-Oilwell Canada Ltd.
 Newco Safety Tel Inc.
 Nortech Surveys (Canada) Inc.
 North Atlantic Machinery (Alta) Ltd.
 Norward Energy Services Ltd.
 Norwest Engineering Ltd.
 Novacorp International Consulting Inc.
 Nowco Well Service Ltd.
 NRL Ltd.
 Nutron Manufacturing Ltd.

 O'Connor Tanks Limited
 Opaco Industries Ltd.

 Pacific Truck & Trailer Ltd.
 Pandit International
 Partec Lavalin Inc.
 Pason Well Services Ltd.
 Penetrators Canada Inc.
 Petrocraft Products Ltd.
 Phillips Cables Limited
 Pillar Oilfield Projects Ltd.
 Plains Perforating Ltd.
 Plainsman Manufacturing Ltd.
 Positive Action Tool Western Limited
 Predictive Maintenance Corporation
 Premetalco Inc., Exchanger Industries Division
 Proficient Oil Tools Ltd.
 Propak Systems Ltd.
 Prudential Steel Ltd.
 Pullmaster Winch Corporation
 Pulsearch Consolidated Technology Ltd.
 Pulsonic Geophysical Ltd.

 Qualitas International Inc.
 Quality Fabricating & Supply Limited
 Quantel Engineering (1981) Ltd.
 Quebec Tools Corporation
 Quinn Testers Ltd.

 Raffin Electric Co. Ltd.
 Ramsay Machine Works Ltd.
 Rayonics Scientific Inc.
 Rebound Rig International Ltd.
 Reflange (Canada) Inc.
 Rice Engineering & Operating Ltd.
 Riley's Datashare International Ltd.
 RockBit Industries of Canada (1985) Ltd.
 RSI Research Ltd.
 Russell Technologies Inc.

 S.I.R. Locator Service Sourcing & Purchasing Inc.
 S.N. Hanson Group Enterprises Ltd.
 Sander Geophysics Limited
 Sandwell Inc.
 Seatronics Technologies Ltd.

SEI Industries Ltd.
 Select Energy Systems Inc.
 Servipetrol Ltd.
 Shaw Pipe Protection Ltd., CANUSA Division
 Sierra Drilling Ltd.
 Simmons Group Inc.
 SIMTECH Consulting Services Ltd.
 Smart Turner Limited
 Solid Resources Limited
 Spilsbury Communications Ltd.
 Sproule Associates Limited
 Sprung Instant Structures Ltd.
 Starozik Industries Ltd., Ruffneck Heaters Division
 Stelco Inc., Stelpipe Division
 Strata Drill Ltd.
 Stream-Flo Industries Ltd.
 Sunada Tech Inc.
 Sussex Manufacturing Ltd.

 Taro Industries Ltd., Rostel Industries Division
 Tarton Engineering Corporation Ltd.
 Techno Scientific Inc.
 Telematic Controls Inc.
 Terra Linda Canada, Inc.
 Terra Surveys Limited
 The Armstrong Monitoring Corporation
 Thermo Design Engineering Ltd.
 Timberland Equipment Limited
 Top-Co Industries Ltd.
 Topco Oilsite Sales Ltd.
 Travis Chemicals Inc.
 Trecon Combustion Limited
 Tri Ocean Engineering Ltd.
 Trimac Limited, Kenting Hi-Tower Drilling Division
 Tubetest Service & Supply Ltd.
 Tydac Technologies Inc.

 United Corrosion Corporation
 United Resource Safety Limited
 Universal Industries Ltd.
 Universal Systems Ltd.
 Universe Machine Corporation

 Valmet Automation (Canada) Ltd., Valmet-Sentrol Division
 Vancouver Shipyards Co. Ltd.
 Variperm (Canada) Limited
 Velan Inc.
 Veritas Seismic (1987) Ltd.
 Viking Pump Company of Canada Ltd.
 Volcano Energy Systems Inc.

 Walker Steel Corporation
 Walters Oil Tool Machine Ltd.



Weatherford Oil Tool Co. Ltd.
Wega-D Geophysical Ltd.
Weir-Jones Engineering Consultants Ltd.
Weldco Limited, Weldco-Beales Division
Wellmaster Pipe and Supply Inc.
Wells-Hall Fabrication and Construction
Ltd.
Western Instruments, Inc.
Westinghouse Canada Inc., Power
Gen. Division
W. a Canada Ltd.
Wire Rope Industries Ltd.

Zeton Inc.
Zimmark Inc.

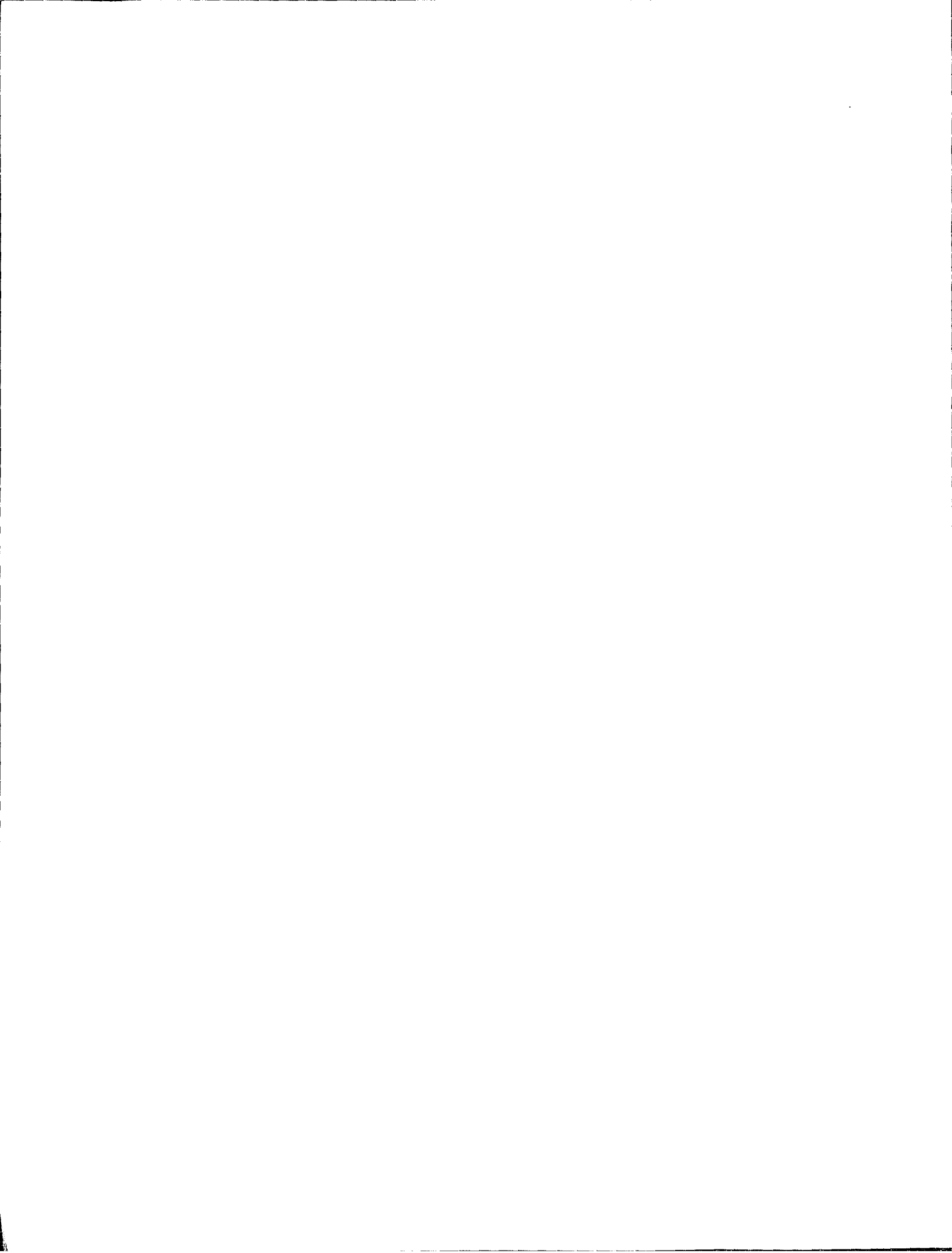


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The wordmark logo for Canada, featuring a stylized maple leaf above the word "Canada" in a serif font.

Canada



Company Profiles

**264333 Alberta Ltd., Wabash
Oilfield Service Division**

9312 - 110 A Street
Westlock, Alberta
Canada T0G 2L0
Telephone: (403) 349-4282
Facsimile: (403) 349-4716
Contact: Ron Riopel, President

Wabash Oilfield Services was established in 1981. The company currently manufactures a full line of steel truck tanks, tankers and pup trailers which feature a highly efficient baffling system. These products are used extensively in the Alberta oil fields and are available for sale or lease. Among its many products is a sophisticated gas boot for use on oil field production tanks.

3-L Filters Limited

P.O. Box 371, 427 Elgin Street North
Cambridge, Ontario
Canada N1R 5V5
Telephone: (519) 621-9949
Facsimile: (519) 621-3371
Contact: Gabriella Magliocco, Inside Sales

3-L Filters Limited designs, engineers, manufactures and services filtration systems for refineries, pipelines and numerous industrial applications. From its original position as a petroleum industry supplier, the company has extended its expertise into filtration for coolants, solvents, lubricants, gases and water. Their engineers are also engaged in product development; prototypes are built and thoroughly tested in their laboratory prior to production and final design. The company exports to the U.S., Asia and Mexico.

**303007 Ontario Ltd., Forex
Machine and Tool Co.
Division**

3267 Lenworth Drive
Mississauga, Ontario
Canada L4X 2G6
Telephone: (416) 625-6443
Facsimile: (416) 625-6443
Contact: Hugo Ven, President

Forex Machine and Tool Co. serves the Canadian, U.S. and Eastern European oil, gas and refining industries with precision machined, stainless steel products. The company specializes in standard and customized fittings and flanges. Its standard products are ANSI/ASTM/API low and high temperature, corrosion resistant, stainless and nickel alloy fittings and flanges. All products are NDE inspected and certified.

A. Comeau & Associates Ltd.

4718 - 90A Avenue
Edmonton, Alberta
Canada T6B 2P9
Telephone: (403) 465-9961
Facsimile: (403) 465-4990
Telex: 037-2966
Contact: Neil M. McNeil, Director of
Marketing

A. Comeau & Associates Ltd. (ACA) was incorporated in 1976 to provide electrical engineering, consulting and design services to the oil and gas industry. In 1979, production began on a line of electronic control products. Engineering services range from the design of small compressor facilities to the design of large gas plants. A comprehensive range of consulting services is offered, including power system analysis, and research and development for electronic products and software. ACA's products include *Keltronics* submersible pump controllers, backspin relays, surge suppressors and SCADA software. The company is currently exporting to Asia, the U.S., Africa and the U.K.

A.R.D. Industries Ltd.

180 Sheldon Drive
Cambridge, Ontario
Canada N1R 6V1
Telephone: (519) 622-1652
Facsimile: (519) 622-1358
Contact: Linda Marriot, Office Manager

A.R.D. Industries Ltd. is Canada's only friction welding service supplier. It also supplies friction welded components. A.R.D. has 5 welders from 6 to 115 t, automatic cut-off saws and CNC turning equipment. The company is contracted to weld various types of equipment, tools and connectors for the oil and gas industry in Canada and the U.S.

Acier A/N Steel Inc.

9405 La Martinière
Riviere Des Prairies, Quebec
Canada H1E 3K8
Telephone: (514) 323-8796
Facsimile: (514) 494-2076
Contact: M. Luc Dubois, President

Acier A/N Steel Inc., established in 1979, manufactures a wide variety of storage tanks for the Canadian and U.S. markets. Their oil storage tanks are available for installation above and below ground. The underground tanks are manufactured complete with cathodic protection, including anodes attached to the tank.



Acres International Limited

480 University Avenue
Toronto, Ontario
Canada M4P 1N2
Telephone: (416) 595-2000
Facsimile: (403) 595-2004
Telex: 06-217815
AnswerBack: acres tor
Contact: Jack Baker, Vice President,
Corporate Marketing

Acres International Limited is a consulting engineering firm with over 65 years of experience. The company offers planning, engineering and management services, including risk analysis, engineering, and economic and environmental studies for petroleum and gas industries, pipeline and pump stations, underground oil storage, and Arctic and offshore engineering. In-house facilities include a basin for testing the interaction of ships, structures and ice, using synthetic ice. Natural gas market and economic studies are conducted in Canada and in developing countries. Engineering for power and heavy civil projects is undertaken in Canada, the U.S. and overseas.

Adlog Inc.

155 Queen Street, Suite 900
Ottawa, Ontario
Canada K1P 6L1
Telephone: (613) 232-5676
Facsimile: (613) 563-9596
Telex: 053-4741
AnswerBack: superior
Contact: Karl McKinnon, President

Adlog Inc. specializes in administration and logistics pertinent to the oil and gas industry. It provides services in accounting, legal, human resources, management and production, project management, supply, training, transportation, and management information systems. It will conduct feasibility studies, operational auditing, managing and monitoring, recruiting and representation. Adlog's staff of 34

management specialists have experience in 65 countries.

AGAT Laboratories

3801 - 21st Street N.E.
Calgary, Alberta
Canada T2E 6T5
Telephone: (403) 299-2000
Facsimile: (403) 299-2022
Telex: 03827957
Contact: Terry Shawchuk, Senior Vice
President

AGAT Laboratories was established in 1982 and has grown to become one of the largest and most diverse analytical laboratories in Canada. From its 3 500 m² facilities, AGAT offers analytical services in the environmental, engineering and geological sectors. Some of its major services include routine core analysis; oil, water and gas analysis; air monitoring; and soil analysis. Radiochemical services are also provided. Training and educational courses are offered through its Canadian Research Centre. AGAT provides a full spectrum of laboratory equipment which includes porosimeters, permeameters, gamma loggers and gas chromatography instrumentation. It has been directly involved in the assembly and maintenance of several field testing laboratories in Canada. AGAT has provided its analytical services to companies located in Europe, South America and the U.S.

AIM Safety Company Inc.

706 Derwent Way
New Westminster, British Columbia
Canada V3M 5P8
Telephone: (604) 524-6711
Facsimile: (604) 522-2855
Contact: Bill McDonald, Vice President

AIM Safety Company Inc. designs and builds intelligent, rugged, high performance gas and leak detection tools to the most demanding industrial and military standards. AIM Detectors are as easy to use as a pocket calculator. These detectors will: monitor a wide variety of gases; compensate for noise gas; capture, in on-board memory, the time, date and type of gas present for later recall and printing; continuously self-diagnose every key operating system and component; and provide ultra sensitive numerical readings of gas concentrations—for source location and arson investigation of unburned hydrocarbons.

Alberta Compressor Valve Co. Ltd.

4124 - 97th Street
Edmonton, Alberta
Canada T6E 5Y6
Telephone: (403) 461-7288
Facsimile: (403) 461-6049
Contact: Boyd T. Wark, President

Alberta Compressor Valve Co. Ltd. manufactures gas and air compressor valves. The PYRAMID gas compressor valve is widely used in the Canadian gas industry; the aerodynamic design of the valve rings offers higher efficiency at reduced costs. The introduction of thermoplastic valve rings reduces the likelihood of damage to the cylinders. Established in 1983, the company also custom designs and manufactures compressor valves for the U.S., U.S.S.R. and Asian markets.



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Alco Gas & Oil Production Equipment Ltd.

310, 4014 MacLeod Trail S.E.
Calgary, Alberta
Canada T2G 2R7
Telephone: (403) 243-5055
Facsimile: (403) 287-1562
Telex: 038-24779
Contact: Ken Pelletier, Vice President, Sales

Alco Gas & Oil Production Equipment Ltd. was incorporated in 1972 to provide production equipment to the Canadian and international oil and gas industries. The company's products include separation equipment, heaters, gas and oil dehydration units, glycol regeneration units, amine plants (to remove acid gas), and gas processing plants (to remove LPG). Alco has been successful worldwide in providing sophisticated equipment for the treatment of oil, water and natural gas.

Allen-Bradley Canada Limited

135 Dundas Street
Cambridge, Ontario
Canada N1R 5X1
Telephone: (519) 623-1810
Facsimile: (519) 623-8930
Telex: 069-59317
Contact: W.C. Torrance, Vice President,
Sales and Marketing

Allen-Bradley Canada Limited manufactures a complete line of industrial control products, programmable controllers, industrial computers, communications, data acquisition, motor control centres, medium voltage starters, and AC and DC drives. The company has developed a worldwide reputation for the design, development and manufacture of medium voltage controllers. These controllers are across the line, multispeed, reversing, autotransforming start, reactor start, soft start, and AC variable speed drives, ranging to 7 200 volts. The company and its 950 employees export to

numerous countries worldwide from its 30 000 m² manufacturing facility.

Almac Industries Ltd.

12235, rue April
Montreal, Quebec
Canada H1B 5L8
Telephone: (514) 645-2221
Facsimile: (514) 645-5613
Contact: Alec Rack, President

Almac Industries Ltd. is a manufacturer of trucks, tanks and trailer tankers for the transportation and distribution of petroleum products. All products are manufactured in Almac's new factory which is one of the most modern in the tank industry. It is equipped with modern metal working machinery and advanced welding technology. Almac markets its refueller truck tanks and its hydrant servicers worldwide to both commercial and military customers. Almac also produces truck tanks and trailer tanks for special applications, such as printing ink, crude oil, asphalt and bulk lubricants.

Almecon Industries Limited

3213 - 97th Street
Edmonton, Alberta
Canada T6N 1B7
Telephone: (403) 461-1647
Facsimile: (403) 463-3052
Contact: James E. Jackson, Marketing
Director

Almecon Industries Limited (AIL) was founded in 1982 as a mechanical consulting firm, specializing in oil field products. In 1984, the company introduced its own line of seismic supplies. The company's products include a range of topping and tamping plugs for seismic auger bore holes; foam and air plugs which are tamping and/or flowing hole (artesian well) control plugs for auger bore and exploration holes/wells; and drive points. The company's products are exported to the U.S. and Asia.

Alpine Subsurface Electronics Inc.

320, 645 - 7th Avenue S.W.
Calgary, Alberta
Canada T2P 4G8
Telephone: (403) 266-2010
Facsimile: (403) 264-7260
Telex: 03821089

Alpine Subsurface Electronics Inc. (ASE) was formed in 1981 to complement the services of Alpine Testers (1987) Ltd. To better serve the customer with reliable pressure and temperature data obtained from drill stem and pressure (wireline), Alpine employs a team of specialists to develop a reliable, affordable, pressure and temperature memory recorder. The ASE Recorder utilizes any IBM or compatible computer to completely download the memory. ASE's design allows for 32 levels of selectable floating intervals where 3 modes (delta time, delta pressure, timed interval delta pressure) can be implemented. The ease and simplistic nature of the recorder is evident through ASE's unique design—placing the interface within the actual recorder. No longer are large and cumbersome external interface boxes required; one cable is required to program, test battery voltage, download data and to check operational modes of the recorder.

AMS Industries Ltd.

1575 Franklin Street
Vancouver, British Columbia
Canada V5L 1P3
Telephone: (604) 251-3591
Facsimile: (604) 251-6422
Contact: George Fry, Sales Manager

AMS Industries Ltd. was incorporated in 1962 and specializes in metal spinning. It can form mild steel, stainless steel and titanium to a thickness of 3/8 in. and to 8 ft. in diameter. The company makes bubble cups and contactor trays in both mild steel and stainless steel, as well as flanged and



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dished, semi-elliptical, and flanged and flued tank heads.

Aqua-Guard Technologies Inc.

200 - 1130 West Pender Street
Vancouver, British Columbia
Canada V6E 4A4
Telephone: (604) 681-3773
Facsimile: (604) 681-6825
Telex: 04-51586

AnswerBack: *enviroctr vcr*
Contact: Nigel Bennett, Director, Sales and Marketing

Aqua-Guard Technologies Inc. was established in 1979 and now serves clients worldwide. The company manufactures a complete range of spill recovery equipment, including rotary kiln incinerators for the disposal of oily and hazardous wastes, oil skimmers, oil spill containment booms, oil sorbents, flexible storage tanks, and emergency response skimming of cargo vessels. It also provides services in hazardous material and oil spill contingency planning, environmental audits, impact assessments, sensitivity mapping, on-site supervision of spill clean-up, disposal of oily and hazardous wastes, and hazardous material computer systems for the work place.

Argo Sales Ltd.

580, 727 - 7th Avenue S.W.
Calgary, Alberta
Canada T2P 0Z5
Telephone: (403) 265-6633
Facsimile: (403) 265-2770
Contact: D.G. Robertson, Vice President

Argo Sales Ltd. is a manufacturer of oil field production equipment and a distributor of tubular goods and line pipe. Argo has two manufacturing and storage locations, and exports worldwide. Products manufactured include separators, treaters, line heaters, dehydrators, flare stacks, Texas Gates, headers and scrubbers.

Associated Corrosion Consulting Ltd.

2220 - 39th Avenue N.E.
Calgary, Alberta
Canada T2E 6P7
Telephone: (403) 250-9041
Facsimile: (403) 291-5681
Contact: W.B. Holzbaum, President

Associated Corrosion Consulting Ltd. was founded in 1963 to offer a completely independent consulting engineering, testing and monitoring service in the field of corrosion control and cathodic protection. Typical projects executed for the oil and gas industry include corrosion control of pipelines, plants and refineries. Services include investigation, design, inspection, specifications, reports, maintenance studies, monitoring and management services. The company's services are provided throughout Canada and to Asia.

Atlantic Engine Rebuilders Ltd., MFM Industries Division

175 Beaverbrook Street
Moncton, New Brunswick
Canada E1C 8J2
Telephone: (506) 857-2700
Facsimile: (506) 859-7112
Telex: 014-2238
Contact: John K. Lockwood, Manager, Tank Department

MFM Industries is a carbon and stainless steel fabricator—light structural and plate fabrication. The company and its 90 employees specialize in factory and field erected storage tanks, including pressure vessels.

Atlantic Towing Ltd.

P.O. Box 5777, 300 Union Street
Saint John, New Brunswick
Canada E2L 4M3
Telephone: (506) 648-2750
Facsimile: (506) 648-2752
Telex: 014-47518
AnswerBack: *atlantow*
Contact: Rio J. St. Armand, General Manager

Operating an extensive fleet of ocean, coastal and harbour tugs, Atlantic Towing Ltd. has served the marine transportation needs of Eastern Canada and the U.S. for 30 years. Equipped with sophisticated marine communication and navigational aids, client monitoring of technically complex operations can be immediate, even when thousands of miles from location. With its fleet of harbour tugs ranging to 3 500 BHP and its berthing, barge bunkering, passenger services, fire protection and pollution control services, the company fulfils the demand for marine services created by offshore resource development.

B&W Technologies Ltd.

742, 3030 - 3rd Avenue N.E.
Calgary, Alberta
Canada T2A 6T7
Telephone: (403) 248-9226
Facsimile: (403) 273-3708
Contact: Neil R. Campbell, Director, Operations

B&W Technologies Ltd. manufactures environmental monitoring equipment and provides gas detection services. Utilizing micro-electronics in its electrochemical-based equipment, safety for personnel is improved and installation and operating costs are decreased. The equipment features a response time of less than eight seconds, safety and reliability; it is also unaffected by humidity. The solar powered, hand-held and hard-wired wireless monitoring equipment operates from -45° C to +60° C. Eight toxic gases

can be monitored, including H₂S, Cl, SO₂, CO and combustible gases. This equipment is easily adaptable to various applications and can be customized to suit site conditions.

Bailey Canada Inc.

860 Harrington Court
Burlington, Ontario
Canada L7N 3N4
Telephone: (416) 639-8840
Facsimile: (416) 639-8639
Telex: 061-8506
Contact: A.S. Taylor, Industry Manager,
Chemical and Petroleum

Bailey Canada Inc. is a world leader in the supply of instrumentation, controls, and distributed systems for the chemical and petroleum markets. The company provides a comprehensive service from the earliest engineering/design stages through to project management to final testing, training and commissioning. Nearly a decade ago, Bailey established an industry standard for distributed digital process control with the introduction of the *Network 90* system. More than 8 500 systems have been sold worldwide. Bailey's *INF190 Strategic Process Management System* extends Bailey's leadership in control systems.

Baker Hughes Canada Inc., Milpark Drilling Fluids Division

600, 736 - 8th Avenue S.W.
Calgary, Alberta
Canada T2P 1H4
Telephone: (403) 269-6971
Facsimile: (403) 262-3875
Contact: Jim A. McCracken, Area Manager

Milpark Drilling Fluids Division has supplied drilling fluid products and provided engineering expertise on over 12 000 wells since its establishment in 1958. The company has a complete range of drilling fluid additives for water-based and oil-based drilling fluids. A complete line

of equipment, including bulk tanks and mixing facilities is also available. Milpark's engineers are equipped to handle drilling fluid situations worldwide—severe loss of circulation, sloughing shales, over pressures, salt, H₂S, CO₂, water flows, anhydrite, and coal seams.

Banister Inc., Footage Tools Division

145 Fenmar Drive
Weston, Ontario
Canada M9L 1M7
Telephone: (416) 746-2911
Facsimile: (416) 746-8906
Contact: R.A. Hudson, Vice President

As a division of one of Ontario's largest underground utility contractors, Footage Tools manufactures customized field tools for the North American buried underground utility/resource industry. Their products include fusion tools for heat fusion of poly gas pipe, butt fusion equipment, squeeze-off tools, heating irons, heater faces, leak detectors; water tapping/drilling machines for direct tapping of water mains, flaring tools, underground piercing tools; and cable pullers and reel lifters.

Barber Industries Ltd.

P.O. Box 5280, Station A
Calgary, Alberta
Canada T2H 2P3
Telephone: (403) 279-7511
Facsimile: (403) 279-4136
Telex: 038-25721
Contact: K. Poffenroth, Marketing Manager

Barber Industries Ltd. has served the energy industry since 1940 and has grown to 300 employees and three operating divisions. It holds 16 patents on its product line. The company's products include wellheads, emergency shut-down systems (actuators, rig savers) and process equipment. The company serves the oil

and gas industry in most oil producing countries.

Baroid Corporation of Canada, Ltd.

2100, 840 - 7th Avenue S.W.
Calgary, Alberta
Canada T2P 3G2
Telephone: (403) 263-8740
Facsimile: (403) 263-9355
Contact: M. Todd Achen, Financial
Manager

Baroid Corporation of Canada, Ltd. has been providing products and services to the oil and gas industry for 30 years. Its Baroid Drilling Fluids Division provides drilling fluids to lubricate and cool the drill bit, remove cuttings and control downhole pressure. Its Sperry-Sun Drilling Services of Canada Division provides the equipment and personnel to drill directional wells with profiles from vertical through horizontal. Bits, motors, non-magnetic flex weight drill collars, drilling jars and MWD services (conventional directional tools, as well as full service logging and directional tools) are supplied. In 1987, the company supplied directional drilling services and equipment to over 625 wells for operators in Canada. It supplied directional drilling, supervision, equipment and personnel for projects in Japan, Kenya and Morocco. It also provided equipment and personnel for horizontal wells in the U.S., the Middle East and the North Sea.



BeauDril (1987) Limited

P.O. Box 2574, Station M
Calgary, Alberta
Canada T2P 3S7
Telephone: (403) 233-4000
Facsimile: (403) 233-5501
Telex: 038-21335
AnswerBack: *beaudril*
Contact: Tim Thomas, Coordinator,
Marketing

BeauDril (1987) Limited leads the drilling industry in providing technologically advanced equipment and operating procedures for Arctic offshore drilling. Through the use of either a bottom founded or floating drilling rig (Mollpaq or Kullak), the harshest environments can be explored or delineated. In addition, four marine vessels, built to Canadian Ice Class IV standards, represent the most complete marine support system of its type. Two of these vessels rated at 23 000 HP represent the most powerful, privately owned icebreakers in the world. All or part of this system is available for charter, together with in-depth operational planning and support. Their markets include the North American offshore, as well as the U.S.S.R., China and Norway.

Bedarco McGruer Inc.

5745, place Turcot
Montreal, Quebec
Canada H4C 1W1
Telephone: (514) 933-7551
Facsimile: (514) 932-2942
Contact: Michael None, Vice President,
Sales and Engineering

Bedarco McGruer Inc. offers a complete line of customized heavy metal and sheet metal products, including pressure vessels, towers, columns, evaporators, heat exchangers, storage tanks, and silos. Its markets include the chemical, petrochemical, petroleum, gas, pulp and paper, mining and pharmaceutical industries. The company and its 100

employees operate from a 10 000 m² facility and export worldwide.

Bennett Environmental Consultants Ltd.

200 - 1130 West Pender Street
Vancouver, British Columbia
Canada V6E 4A4
Telephone: (604) 681-3773
Facsimile: (604) 681-6825
Telex: 04-51586
AnswerBack: *enviroentre vcr*
Contact: Sue Kelsch, Marketing Assistant

Bennett Environmental Consultants Ltd. provides engineering and consulting services to the petroleum/chemical industry and governments worldwide. The company provides oil/chemical spill emergency response planning and evaluation, oil spill clean-up equipment design, supply evaluation, disposal of oily wastes, ecological surveys, and emergency response training. It also supplies emergency response software and Geographic Information Systems. The company has completed national emergency response plans for marine-based oil and chemical spills and has conducted training in emergency response on behalf of 14 countries in South America and Asia.

Bercha International Inc.

1220 Kensington Road N.W.
Calgary, Alberta
Canada T2N 3P5
Telephone: (403) 270-2221
Facsimile: (403) 270-2014
Telex: 03-827666
AnswerBack: *bercha cgy*
Contact: B.J. Griffin, Vice President

Bercha International Inc. has offices throughout Canada and Asia. It provides complementary consulting services in project management, engineering, risk analysis, remote sensing data acquisition, and environmental analysis services for clients in the private and public sectors

worldwide. Since 1975, the company has provided services in Arctic and Antarctic engineering; industrial risk analysis; environmental risk assessment; ice mechanics; remote sensing, including radar and laser data; and digital data processing. Hundreds of projects have been executed in the northern and equatorial regions of the world.

Beta Monitors & Controls Ltd.

300, 1615 - 10th Avenue S.W.
Calgary, Alberta
Canada T3C 0J7
Telephone: (403) 245-5300
Facsimile: (403) 245-3257
Contact: John Kent, Sales Manager

Beta Monitors & Controls Ltd. was incorporated in 1979. The company produces a complete line of condition monitoring systems which are used throughout industry in predictive maintenance programs. The company's products include the *RECIP-TRAP*—used in condition monitoring of reciprocating engines and compressors; *DATA-TRAP*—used in condition monitoring of rotating equipment; *BETA-TRAP*—used to balance large industrial engines; and *MHEALTH*—machine health monitoring system.

BMP Energy Systems Ltd.

1100, 777 - 8th Avenue S.W.
Calgary, Alberta
Canada T2P 3R5
Telephone: (403) 234-7979
Facsimile: (403) 262-9775
Contact: Gerald D. Feschuk, Vice
President, Marketing

BMP Energy Systems Ltd. specializes in natural gas measurement processes, consulting and training for the domestic and international oil and gas industry. BMP is the only Canadian manufacturer of electronic integration equipment. This specialized measurement equipment utilizes *NGAS* (Natural Gas Accounting



Software) developed by BMP. The company conducts training and consulting related to every aspect of measurement control, field inspection, surveillance, audit training, production accounting, loss prevention and security. The company also offers a production accounting system entitled *P.R.I.S.M.*, as well as modular field data capture system.

Bombardier Inc.

106, promenade Gun
Point Claire, Quebec
Canada H9R 3X3
Telephone: (514) 694-4343
Facsimile: (514) 695-9630

Bombardier Inc., established in 1942, offers all-terrain, soft track vehicles to the oil and gas industry. These vehicles feature capacities ranging from 2 000 to 40 000 lb. and are used for transporting equipment and personnel. The *Bombardier* and *Go-Tract* vehicles are used for diamond drilling, and burden and soil sampling drilling. They are also used as carriers of mobile cranes, petroleum exploration units, fire fighting units, and seismic exploration units.

Bovar Inc., Mainland Manufacturing Division

15110 River Road
Richmond, British Columbia
Canada V6V 1L5
Telephone: (604) 273-1455
Facsimile: (604) 276-0051
Contact: Bruce M. Kitchener, Marketing Manager

The Mainland Manufacturing Division of Bovar Inc. offers integrated custom manufacturing services. Complete with foundry, machine/assembly shops, fabrication shops, belting shops, saw shops, distribution warehouses and engineering capabilities, Mainland also manufactures various models of service rigs. The company and its 186 employees export to

the U.S., Mexico, Africa and South America.

Bovar Inc., Western Research Division

1313 - 44th Avenue N.E.
Calgary, Alberta
Canada T2E 6L5
Telephone: (403) 291-1313
Facsimile: (403) 291-1128
Telex: 03-827569
Contact: Aaron Dagan, Manager,
International Marketing

Twenty-five years ago, when the sulphur recovery and gas processing industry in Canada was in critical need of environmental control technology and reliable pollution control instrumentation, the Western Research Division of Bovar Inc. introduced the analytical tools, process analyzers and consulting services which enabled the industry to minimize polluting emissions. The current Western Research line of process instruments includes significantly advanced versions of the continuous stack emission monitor, air demand analyzer, sulphur dioxide monitor, hydrogen sulphide monitor, sales gas monitor, total reduced sulphur monitor and the hydrogen sulphide in amine monitor. Many of the company's products and services have become industry standards throughout North America and in many of the world's industrialized countries.

BPB Instruments (Canada) Ltd.

615, 500 - 4th Avenue S.W.
Calgary, Alberta
Canada T2P 2V6
Telephone: (403) 234-9144
Facsimile: (403) 237-5480
Contact: Mike Stadnyk, Sales Manager

BPB Instruments (Canada) Ltd. designs and manufactures wireline logging equipment and provides a comprehensive range of open hole, well logging services to the oil industry. The company's range of services includes open hole, cased hole, production logging, VECTAR enhanced high resolution logs, data transmission and computer interpretation. Both onshore truck mounted units and offshore skid units are available. In addition to conventional oil field services, a suite of slimline well logging services are offered for coal, tar sands, mineral and slimline oil and gas applications. The standard downhole oil field equipment is rated to 150° C and 15 000 psi; winch capacity is 6 000 m.

Bristol Babcock

234 Attwell Drive
Rexdale, Ontario
Canada M9W 5B3
Telephone: (416) 675-3820
Facsimile: (416) 674-5129

Established in 1933, Bristol Babcock is a manufacturing, sales and engineering company, specializing in networked distributed control systems and instrumentation—temperature, pressure and electrical recorders, transmitters and controllers. The company provides a number of services, including engineering design. It produces a number of different protocol drivers and offers a repair and maintenance service. Gas plants and gas transmission companies in Canada, the U.S. and Asia are among its clients.



Brittania Compression Industries Ltd.

6, 3515 - 27th Street N.E.
Calgary, Alberta
Canada T2E 5E4
Telephone: (403) 250-1844
Facsimile: (403) 291-2436
Contact: W. Sanderman, President and General Manager

Brittania Compression Industries Ltd. offers compressed air or gas equipment and a complete range of services, including standard equipment supply, design engineering, fabrication and modification, installation and start up, maintenance, service, parts and repair. Its equipment includes industrial air compressors, positive displacement blowers and vacuum pumps for 1/4 HP to 300 HP in reciprocating, rotary vane and rotary screw configurations. In addition, Brittania can supply and service oil-free and high-pressure compressors with pressure ratings ranging to 10 000 psi. The company's ability to design and build specialized systems for compressed air or various other gases is in constant demand by numerous clients.

Brooke Ocean Technology Ltd.

P.O. Box 2220, DEPS
Dartmouth, Nova Scotia
Canada B3W 3Y3
Telephone: (902) 466-4075
Facsimile: (902) 466-4068
Contact: Arnold Furlong, Partner

Brooke Ocean Technology Ltd. was formed in 1983 to offer services in mechanical research and development with emphasis on the conceptual design and industrial reproduction of unique oceanographic and marine equipment and methods, particularly mechanisms suited to harsh environmental conditions. The company specializes in the design and development of shipboard handling/recovery systems, design and development of towed systems,

development of sensors and instrumentation, at-sea testing of equipment and systems, and development of oceanographic and marine equipment.

Bzh Petroleum Consultants Ltd.

131 Valhalla Crescent N.W.
Calgary, Alberta
Canada T3A 1Z7
Telephone: (403) 263-5633
Facsimile: (403) 265-0571
Contact: Herve B. Collet, President

Established in 1976, Bzh Petroleum Consultants Ltd. has operated in Canada, the U.S., Europe, Africa and Central America. Its services range from wellsite supervision (geological, drilling, completions and production) to total project management and coordination (pre-project operation evaluations, supply, labour, logistics infrastructure, project administration, cost and materials control, and logistics backup). The company assists in the maximization of field efficiency and recovery of natural resources, better project administration, coordination and follow-up service.

C.M.E.L. Enterprises Ltd.

P.O. Box 220
Spencerville, Ontario
Canada K0E 1X0
Telephone: (613) 658-3099
Facsimile: (613) 658-2897
Contact: Bob Marcellus, President

C.M.E.L. Enterprises Ltd. was established in 1979 to provide consulting, engineering, and research and development services to both industry and government. It is a leader in mechanics and ice-structure interaction modelling. Its services include ice engineering, continuum modelling, fracture mechanics modelling, offshore coastal and Arctic engineering services, and offshore pipeline design.

CAE Machinery Ltd.

3550 Lougheed Highway
Vancouver, British Columbia
Canada V5M 2A3
Telephone: (604) 299-3431
Facsimile: (604) 299-5935
Telex: 04-53498
Contact: L.M. LePage, Foundry Industrial Sales Manager

CAE Machinery Ltd., founded in 1913, is one of the CAE Industries group of companies. The Foundry Division meets its needs for large steel, stainless steel and ductile iron castings (to 5 500 kg), and also supplies numerous North American companies. It produces components for heavy equipment, such as cast gear blanks; and pump and valve components for petrochemical, pipeline, and power generation (including nuclear). The Foundry Division meets the requirements of CSA Z299.3.

CAEC Arctic Engineering Inc.

201 - 150 Isabella Street
Ottawa, Ontario
Canada K1S 5A3
Telephone: (613) 236-3920
Facsimile: (613) 236-5614
Telex: 053-4499
AnswerBack: gemil ott

CAEC Arctic Engineering Inc. is a Canadian joint venture company. It develops turnkey solutions to problems of hydrocarbon resource development in northern offshore areas. This approach brings together a wide range of complementary expertise and offers clients a cost effective alternative to similar services provided by the large multinational corporations. CAEC offers services in project management, ice model testing, geophysics, naval architecture, logistics support, structural engineering, instrumentation and controls. Its markets include countries with difficult offshore waters, such as the U.S.S.R., China, Norway and Denmark.

Camrose Electric Controls Ltd.

9651 - 62nd Avenue
Edmonton, Alberta
Canada T6E 0E1
Telephone: (403) 435-5195
Facsimile: (403) 434-7887
Contact: Ken Hillman, President

Camrose Electric Controls Ltd. was founded in 1954 and, in cooperation with a major oil company, a wellhead pumping unit shutdown switch was developed for the oil industry. The company has expanded its line of controls to include stuffing box pollution controls, wellhead pumping unit controls, vibration controls, liquid levels controls, float controls and flow/no flow controls, as well as a range of pressure controls from 0.05 to 2 in. for use in pipeline, petrochemical and industrial plants. The RS73WPM is the most popular product because of its external reset, high temperature and high-pressure capabilities. It is used extensively in steam flood applications.

Canadian Blower/Canada Pumps Limited

90 Woodside Avenue
Kitchener, Ontario
Canada N2G 4K1
Telephone: (519) 744-8111
Facsimile: (519) 744-4500
Contact: Robert E. Schock, Vice President,
Sales

Canadian Blower/Canada Pumps Limited was founded in 1905 and has a 20 000 m² manufacturing facility, a staff of 400, and many numerically controlled work centres. The company produces customized heating, ventilating, air conditioning units; commercial and industrial pumps; and machine tools for markets worldwide.

Canadian Foremost Ltd.

1616 Meridian Road N.E.
Calgary, Alberta
Canada T2A 2P1
Telephone: (403) 272-3322
Facsimile: (403) 273-8084
Telex: 038-22772
AnswerBack: foremost cgy
Contact: D.R. Stewart, Director of Sales,
Vehicles Division

The Vehicles Division of Canadian Foremost Ltd. designs and manufactures a wide range of high-flotation, wheeled and flexible track, low ground pressure, all-terrain transporters to serve a wide variety of industry needs. The vehicles are designed for operation in mud, sand, swamp or snow where conventional equipment cannot operate. The combination of low ground bearing pressure and high tractive effort provide excellent mobility. Payload capacities range from 5 to 70 tons.

The Drill Systems Division designs and manufactures a series of drills and drill pipes. It pioneered the design of the reverse circulation drill and pipe system which provides uncontaminated soiled samples from depths to 300 m. The system is capable of drilling through all formations regardless of density, and in cases where conventional core drilling is not practical.

Canadian Fracmaster Ltd.

1800, 505 - 5th Street S.W.
Calgary, Alberta
Canada T2P 3J2
Telephone: (403) 262-2222
Facsimile: (403) 265-4967
Telex: 03-827967
Contact: Bill Salahub, Manager,
International Sales

Canadian Fracmaster Ltd., founded in 1976, serves the oil and gas industry throughout Western Canada and internationally. Fracmaster offers a broad

range of products and services, including its own line of oil field equipment—fracturing equipment, coiled tubing units, cementing equipment, nitrogen equipment and carbon dioxide equipment. Chemicals are developed in Fracmaster's laboratories for its acidizing, fracturing and cementing services. Chemicals can also be custom developed. Training in service and safety are provided in Canada and internationally. The ongoing development of new technologies is evidenced by its numerous patented products and services and other industry firsts. These technologies are offered internationally as part of Fracmaster's technology transfer commitments.

Canadian International Fluid Services Inc.

403, 300 - 5th Avenue S.W.
Calgary, Alberta
Canada T2P 3C4
Telephone: (403) 269-2803
Facsimile: (403) 266-5708
Telex: 0636700614
Contact: Larry Pamplin, President

Canadian International Fluid Services Inc. provides technological advisory services to some of the world's largest oil and gas companies, and manufactures and supplies Brine-Add downhole fluids. The company's field representatives have developed an extensive working knowledge of fluid requirements and applications for nearly every oil field condition from shallow hole drilling projects to high-pressure sour gas work over and horizontal drilling. The company is a leading authority in fluid compositions, programming, proposals and recommendations, and well site fluid supervision.



Canadian Marine Drilling Ltd.

250 - 6th Avenue S.W.
Calgary, Alberta
Canada T2P 2H8
Telephone: (403) 298-3500
Facsimile: (403) 298-3533
Telex: 03-822062
AnswerBack: domcanmar cgy
Contact: L.G. Hammer, Manager, Contract Drilling

Canadian Marine Drilling Ltd. (Canmar) was formed in 1973 to perform the operational aspects of a major exploration program in the Canadian Beaufort Sea. Canmar performed the first deepwater drilling in the Beaufort Sea in 1976 and has drilling units supported by specialized marine equipment and technical personnel. Canmar is an Arctic offshore contractor and provides its clients with integrated drilling, marine, ice management and land-based logistical support. Providing these specialized services are 400 personnel; a fleet of four mobile offshore drilling units (three drill ships and one bottom-founded caisson); and a marine fleet, including six icebreakers.

Canadian Rig Ltd.

1165G - 44th Avenue S.E.
Calgary, Alberta
Canada T2G 4X4
Telephone: (403) 287-1910
Facsimile: (403) 287-2367
Contact: Allan Richardson, General Manager

Canadian Rig Ltd. was established in 1984 to design, build and operate advanced oil field rigs and associated equipment. The company has specialized in slant drilling, mechanization and automation of drilling rigs, slant work over rigs, and top drive drilling systems for conventional mobile, land-based drilling rigs

Canadian Swabmaster Products Ltd.

708 - 19th Avenue, P.O. Box 139
Nisku, Alberta
Canada T0C 2G0
Telephone: (403) 955-7500
Facsimile: (403) 955-8921
Contact: Garry Farr, Sales Manager

Canadian Swabmaster Products Ltd. has been manufacturing and exporting a complete line of well servicing equipment for 10 years. Their equipment includes swab cups—tubing and casing; swab mandrels—tubing and casing sinker bars; tubular jars; hydraulic oil saver units; rod stripper rubbers; pipe wipers; rope sockets and swivels; oil saver rubbers; BOP ram rubbers; hydraulic pack-off head; and pack-off rubbers.

Canadian Tool & Die Ltd.

1331 Chevrier Boulevard
Winnipeg, Manitoba
Canada R3T 1Y4
Telephone: (204) 453-6833
Facsimile: (204) 453-3803
Contact: Hans Roeder, Manager, Specialty Engineering

Canadian Tool & Die Ltd., founded in 1947, is a custom manufacturer of heavy duty cylinders. The cylinders feature working pressures up to 34 478 kPa (5000 psi); precision ground, hard chrome plated piston rods; bore sizes from 25 to 200 mm (1 to 8 in.); and a choice of seals. All cylinders are quality controlled and individually tested before leaving the factory. The company exports to the U.S., Mexico and Central America.

Canadoil Forge Ltée

805, boulevard Alphonse Deshaies
Becancour, Quebec
Canada G0X 1B0
Telephone: (819) 294-6683
Facsimile: (819) 294-6189
Contact: Bruno Perelli, General Manager

Canadoil Forge Ltée, founded in 1983, specializes in the manufacture of customized valves and pipe fittings. The company exports to the U.S. and South America.

CanOcean Engineering Limited

1 Grosvenor Square
New Westminster, British Columbia
Canada V3M 5S1
Telephone: (604) 524-4451
Facsimile: (604) 524-8943
Contact: Jean Lhopitallier, Chief Executive Officer

CanOcean Engineering Limited, formed in 1969, has pioneered many types of subsea systems and has become a world leader in the area of subsea oil production technology. It has completed projects throughout the world, including Brazil, China and India. CanOcean has been designing multiwell production systems since 1977. Template and manifolds have been designed for numerous major oil companies. These systems are for shallow water, diver-assisted applications, as well as operated equipment for installation, retrieval and maintenance of subsea equipment.



Canpolar Inc.

265 Rimrock Road, Unit 4
Toronto, Ontario
Canada M3J 3C6
Telephone: (416) 635-5484
Facsimile: (416) 635-5353
Contact: James R. Rossiter, President

Canpolar Inc. was formed in 1983 to provide innovative scientific consulting to the offshore development sector, particularly for Canada's Arctic and East Coast regions. The company focusses on technologies for the detection and monitoring of pollution, environmental conditions and infrastructure decay. Its approach is to combine leading sensor technologies with the capabilities of modern portable computers. Canpolar has extensive experience and expertise in the development and use of Ground Penetrating Radar (GPR) for environmental and engineering applications, as well as in the research and development of sensing technologies for oil industry problems. The company has proprietary application and interpretation software for combining GPR results with those from other sensors, such as electromagnetic induction. The company also offers unique airborne ice thickness measurement capability.

Canspec Group Inc.

480C - 36th Avenue S.E.
Calgary, Alberta
Canada T2G 1W4
Telephone: (403) 287-2783
Facsimile: (403) 287-1559
Contact: John Collins, Marketing Manager

Canspec Group Inc., incorporated in 1985, is comprised of a number of companies and is one of the largest groups of engineers, technologists and inspectors engaged in quality assurance. Canspec is a recognized leader in the field of computerized non-destructive test systems. The company offers specialized engineering consulting services which

include specification preparation, failure analysis, plant evaluation and audits, and material evaluations in the areas of metallurgy, welding, corrosion, polymers, and quality assurance. The non-destructive testing division uses technologically advanced equipment for radiography, ultrasonics, infrared thermography, vibration analysis, magnetic particle, leak testing, acoustic emission monitoring, alloy analysis and others. Canspec also provides technical assistance to thermal and nuclear power generator stations, the pipeline and offshore industry, aerospace and shipbuilding, major manufacturing industries, and structural steel fabrication.

Cantech Environmental Systems Inc.

2345 Stanfield Road
Mississauga, Ontario
Canada L4Y 3Y3
Telephone: (416) 275-9800
Facsimile: (416) 275-0947
Telex: 06-961477
Contact: Ken Scott, Sales Manager

Cantech Environmental Systems Inc. offers complete engineering services and a broad range of gas and liquid filtration products to the oil and gas industry. The *Canflo* trademark offers a variety of liquid filtration products and systems for the filtration of drilling fluids, hydrocarbons and amine. Cantech exports to most world markets.

Canterra Equipment Inc.

6700 - 9th Street N.E.
Calgary, Alberta
Canada T2E 8K6
Telephone: (403) 295-7676
Facsimile: (403) 295-7683
Telex: 03-821214
Contact: Howard Jackson, Vice President,
Sales

Established in 1978, Canterra Equipment Inc. designs and manufactures heliportable seismic drill rigs. It has developed 'people' portable, buggy, trailer and other types of heliportable seismic drills. The company's hands-on approach and technical ability has made them an industry leader. The portable models include hand carried models for hole depths to 50 m in hard rock. The helicopter portable drills are available in models for hole depths to 100 m. The company's new products include auger drills for recovery wells. A soil investigation service is also offered. More than 500 Canterra drills have been sold in 26 countries.

Canuck GIE Engineering Ltd.

200, 708 - 11th Avenue S.W.
Calgary, Alberta
Canada T2R 0E4
Telephone: (403) 267-6000
Facsimile: (403) 267-6099
Telex: 03-826678
AnswerBack: canuck eng cgy
Contact: William Bruce, President

Canuck GIE Engineering Ltd., consulting engineers to the pipeline and petroleum industries worldwide, provides a complete range of services from feasibility studies through to total project engineering, procurement and construction management. It is recognized in Canada as a leader in the provision of specialized services to the pipeline industry. The company has the technical capability, experience and resources to provide general consulting services for the



transportation of crude oil, gas, gas liquids, LNG, petroleum products, commercial liquids, gases and slurries. Its staff have had senior design responsibility for all phases of oil, gas and product pipeline projects in Canada and abroad, including evaluation and selection of new and unique equipment and materials for unusual pipeline service, tankage and storage, interface detection and metering for custody transfer of unusual and high vapour phase products.

Capilano Geophysical Ltd.

2615 - 22nd Street N.E.
Calgary, Alberta
Canada T2E 7L9
Telephone: (403) 276-8022
Facsimile: (403) 291-2355
Contact: John A. Bull, International
Operations Manager

Capilano Geophysical Ltd., one of Canada's largest geophysical data acquisition companies, was founded in 1980. The company employs more than 200 people in domestic and overseas operations. Capilano has a mix of four sophisticated vibroseis (controlled energy input) crews with one dynamite energy source crew. It is equipped to handle any terrain requirements. The company's capabilities extend to management and field personnel who are experienced in both domestic and international operations; dynamite or vibroseis recording; high channel capability with SERCEL 368, CFS 5, and MASTER/SLAVE recording systems; extensive field processing and parameter testing; computerized quality control for vibrators and recording instrumentation; and all terrain capabilities with both track and buggy crews.

Caproco (1987) Limited

8741 - 53rd Avenue
Edmonton, Alberta
Canada T6E 5E9
Telephone: (403) 468-1187
Facsimile: (403) 466-6432
Telex: 037-42787
AnswerBack: caproco edm
Contact: Bob Conn, Vice President

Caproco (1987) Limited has offered a comprehensive corrosion prevention service since 1951. The company can provide a total involvement from initial site survey through manufacturing to commissioning, maintenance and training, and material procurement. Caproco has experts available for consultation in a wide variety of corrosion disciplines. Its equipment has been installed for various projects throughout the world, including the U.S.S.R., Middle East, North Sea and the U.S.

The range of internal corrosion monitoring equipment includes access fittings, retriever tools, service valves, weight loss coupons, and a full line of monitoring probes and metering devices. Products related to detection of biofilm related corrosion include bacteria probes, electrical resistance (ER) and linear polarization (LPR) probes for use in high or low pressure systems; a complete line of biofilm monitoring equipment, including biofilm studs, probes and spools; *The Hydrogenase Test*—a new test for microbially influenced corrosion which is fast (less than 4 hours) and will indicate the level of activity of corrosion-influencing bacteria.

Cardium Tool Services Inc.

P.O. Box 5620, Station L
Edmonton, Alberta
Canada T6C 4G1
Telephone: (403) 465-9311
Facsimile: (403) 469-0744
Telex: 037-41702
AnswerBack: cardium edm
Contact: Christopher Stewart, International
Director

Cardium Tool Services Inc., founded in 1954, is a leading designer and manufacturer of downhole tools and services for Canadian, U.S. and Asian clients. It has been involved in the development of every major oil and gas field in Canada. Its operations extend from the critical sour wells of the Alberta foothills to the massive Enhanced Oil Recovery Tar Sands of Northern Alberta. Cardium is also a major supplier to East Coast and Arctic frontier areas. From a simple tubing anchor catcher to a critical service tandem cone hydraulic liner hanger assembly, Cardium provides superior equipment designed to help produce oil and gas profitably, efficiently and safely.

Catalytic Maintenance Inc.

400, 8500 MacLeod Trail South
Calgary, Alberta
Canada T2H 2N2
Telephone: (403) 268-6899
Facsimile: (403) 255-1421
Telex: 038-22509
AnswerBack: del cat cgy
Contact: Murray Propp, Vice President,
Business Development

Catalytic Maintenance Inc. introduced the concept of contract maintenance for industrial plant sites to North America in 1952. At present, Catalytic averages approximately one million days annually in the development of international projects in Asia and South America. Four thousand highly trained supervisory staff and trades personnel for safety, labour relations, quality assurance/control and



tool services are supplied for maintenance, shutdown revamp and construction projects.

Centre for Frontier Engineering Research

200 Karl Clark Road
Edmonton, Alberta
Canada T6N 1E2
Telephone: (403) 450-3300
Facsimile: (403) 450-3700
Contact: Elizabeth Clarke, Networking Officer

The Centre for Frontier Engineering Research (C-FER) was established in 1983 as a national centre of excellence. Its list of members has grown to 40 organizations, representing the leaders in Canada's resource and service industries, government agencies, laboratories and academic institutions. C-FER's move to its new \$18 million research centre in the Edmonton Research Park heralds a dramatic step forward in its research capabilities. The centre offers a broad range of reliable, quality services through the integration of expertise in the disciplines of structural analysis and engineering, cold regions and offshore engineering, mathematical modelling and numerical analysis, materials science and engineering, risk and reliability analysis, and synthesis and analysis of information. Research at C-FER focusses on both the improvement of existing technologies and the development of new technologies. Its achievements include a total technology for the design of ice-resisting composite walls, a new procedure for cold weather repair welds, a detailed understanding of the in-service performance of casing/connection systems for thermal recovery wells, and the innovative URAP tool for monitoring and for quality assurance in the make-up of premium connections.

Century Valve and Machine Co. Ltd.

1915 - 30th Avenue N.E.
Calgary, Alberta
Canada T2E 6Z5
Telephone: (403) 250-9742
Facsimile: (403) 250-8624
Contact: Garth Hasselback, Marketing Manager

Century Valve and Machine Co. Ltd., founded in 1967, is a leader in the manufacture and supply of precision machined components for the process control industry in Canada. The company manufactures a complete line of instrumentation valves, ranging from small needle valves to gauge valves to multivalve instrumentation manifolds. Century is also Canada's largest producer of thermowells. The company also manufactures custom machined parts for a wide variety of companies in the processing and petrochemical sectors. Century utilizes advanced technology and manufacturing enhancements, such as CAD/CAM, CNC production equipment, robotics, and automatic bar-feed.

Cessco Fabrication and Engineering Ltd.

7310 - 99th Street
Edmonton, Alberta
Canada T6E 3R8
Telephone: (403) 433-9531
Facsimile: (403) 432-7899
Contact: David Howie, Vice President

Cessco Fabrication and Engineering Ltd. is a diversified worldwide supplier of major equipment to the oil and gas industry. It is a leading Canadian designer and fabricator of large ASME Code pressure vessels manufactured with steel, clad steels and other alloys; and skid mounted process modules, such as dehydrators, separators and line heaters. Cessco also builds large custom equipment and machinery for general industry. Skilled tradesmen for field construction

and maintenance can be provided by the company's Field Services Division.

CH2M Hill Engineering Ltd.

1100, 815 - 8th Avenue S.W.
Calgary, Alberta
Canada T2P 3P2
Telephone: (403) 237-9300
Facsimile: (403) 237-7715
Contact: Steven L. Lackey, President

CH2M Hill Engineering Ltd. is a consulting engineering company. Founded in 1978, the company has received numerous awards for innovative engineering. It provides conceptual design studies, detailed designs and construction management services related to heavy oil projects, oil production, produced water treatment and disposal, and natural gas productions. All facets of project design are provided in-house, including water sourcing, gathering systems and pipeline networks, gas sweetening and sulphur removal, and environmental assessment. The company is a recognized leader in the technology related to the treatment of produced water for reuse as steam generator feedwater in heavy oil projects.

Challenger Surveys & Services Ltd.

200, 6011 - 1A Street S.W.
Calgary, Alberta
Canada T2H 0G5
Telephone: (403) 253-8101
Facsimile: (403) 253-1985
Contact: J. Tom Lockhart, Manager, International Business

Challenger Surveys & Services Ltd. is a multidisciplinary survey firm, offering a diverse range of survey services, including offshore surveys. The company has operating experience more than 20 countries. The range of professional services offered includes legal and Cadastral surveys, control surveys, oil field surveys, construction surveys, seismic surveys, hydrographic surveys, offshore



surface and subsurface positioning and navigation, geohazard surveys, engineering surveys, gravity and magnetic surveys, software and hardware system design, drafting services, satellite control surveys (Transit and GPS), and research and development.

Chambers Engineering Ltd.

17319 - 108th Avenue
Edmonton, Alberta
Canada T5S 1G2

Telephone: (403) 484-4447
Facsimile: (403) 484-4581

Chambers Engineering Ltd. specializes in oil field and oil well production optimization, using the C.E. 1000 dynamometer and company developed software. The company also offers training courses and production engineering studies and is available for foreign and domestic operations. It provides full service and supplies for these instruments. The C.E. 1000 is a microcomputer-driven instrument; it is field rugged and can store data for 40 well surveys. The company has developed an advanced library of related software covering all phases of pumping oil well analysis. The company's dynamometer service evaluates all aspects of the pumping system from pump intake pressure through mechanical condition of the pump and tubing anchor, stresses in the sucker rod string, loading on the gear box, and beam and power requirement.

Chase Manufacturing Inc.

Box 12, Site 5, RR 5
Calgary, Alberta
Canada T2P 2G6
Telephone: (403) 279-2809
Facsimile: (403) 236-1328
Contact: Robert G. Herron, President

Chase Manufacturing Inc. produce and supply casing and tubing couplings to the worldwide oil industry. Advanced computer numeric controlled lathes are operated by skilled technicians, producing threads to exacting standards and close dimensional tolerances. Licensed by the American Petroleum Institute since 1985, the company has produced couplings in both round and buttress thread form and in diameters from 2 1/2" to 13 1/2" in.

Chimo Equipment Ltd.

100, 909 - 7th Avenue S.W.
Calgary, Alberta
Canada T2P 1A6
Telephone: (403) 264-2245
Facsimile: (403) 264-8848
Contact: Robert W. Logan, President

Chimo Equipment Ltd., established in 1973, manufactures the WATCHDOG line of electronic drilling instrumentation. The WATCHDOG Model 3031S PVT Plus System is a microprocessor-based monitoring system which is designed to operate safely in all climatic conditions within a temperature range of -40° C to +70° C and to withstand the toughest oil field conditions.

Chimo Polyurethanes Ltd.

100, 909 - 7th Avenue S.W.
Calgary, Alberta
Canada T2P 1A6
Telephone: (403) 264-2245
Facsimile: (403) 264-8848
Contact: Robert W. Logan, President

Chimo Polyurethanes Ltd. manufactures urethane elastomers for a variety of applications in the oil field markets. The manufacturing process requires the blending of high quality polyethers which are liquid cast to form the urethane products. Currently, it has the capability of processing medium-hard rubber to medium-hard plastics. The company exports to the U.S., Europe and Asia.

Chinook Industrial Supplies Ltd.

516 - 60th Avenue S.E.
Calgary, Alberta
Canada T2H 0P9
Telephone: (403) 253-8291
Facsimile: (403) 255-5565
Contact: Robert A. Bracko, Manager

Chinook Industrial Supplies Ltd., incorporated in 1965, manufactures component parts for all makes of natural gas compressors and air compressors. The company pioneered the use of high temperature thermoplastic compressor valve plates. These modern, efficient and environmentally compatible materials are incorporated into their Chinook compressor valves used in natural gas production facilities, gas processing plants, gas transmission station, refineries, and petrochemical plants. They are also used in air compressors. Chinook compressor valves are engineered and designed to improve compressor valve efficiency.



Cis Can Sales (Western) Ltd.

3880 - 74th Avenue
Edmonton, Alberta
Canada T6B 2P7
Telephone: (403) 466-3178
Facsimile: (403) 468-5904
Contact: David Gomez, Sales Manager

Cis Can Sales (Western) Ltd., incorporated in 1976, manufactures Cata-Dyne infra-red flameless gas heaters. These explosion-proof heaters are available in various sizes and configurations and feature single unit ratings from 3 000 to 45 000 BTU/hr. These heaters operate on natural gas or propane, and are certified by the Canadian Gas Association for use in class 1, divisions 1 and 2, group D hazardous locations. Cata-Dyne heaters are utilized for space and equipment heating of all types of oil and gas production buildings.

Computalog Ltd.

800, 600 - 6th Avenue S.W.
Calgary, Alberta
Canada T2P 0S5
Telephone: (403) 265-6060
Facsimile: (403) 298-5790
Telex: 03-826771
AnswerBack: computalog Cgy
Contact: J.F. Perry, Manager, International Development

The principal business of Computalog Ltd. is to provide the oil and gas industry with wireline logging, perforating and production logging; directional drilling, measurement while drilling and mud motors; fishing tools and supervision; cement plug quality logging; and petrophysical analysis. Wireline service operations include open hole services, cased hole services and production logging. Their geotechnical services for the petroleum industry include basic reservoir core analysis, specialty tests and analysis, petrophysical studies, fluid analysis and research. Manufacturing involves the design and fabrication of

specialized truck or skid mounted wireline, MWD and seismic field units which are used in company operations and which are sold in export markets.

Condor Machinery (1985) Ltd.

4771 Eleniak Road
Edmonton, Alberta
Canada T6B 2N1
Telephone: (403) 466-9799
Facsimile: (403) 469-2357
Contact: Inge Lohse, President

Condor Machinery (1985) Ltd. has been in the machining repair business since 1980 and offers specialized services to the oil and gas industry in Canada and the U.S. Complete with lathes, milling machines, drill presses, surface grinder, cylindrical grinder, numerical control machining, welders, and metco thermal coating, the company performs major and minor repairs to equipment employed in high-pressure and low pressure services. The equipment includes engine components, gas compressor components, centrifugal pumps, reciprocating pumps, turbines, gear boxes, heavy equipment repairs, foundry equipment, downhole drilling equipment and pipeline equipment.

Control Engineering Inc.

11, 1915 - 32nd Avenue N.E.
Calgary, Alberta
Canada T2E 7C8
Telephone: (403) 250-7915
Facsimile: (403) 250-1194
Contact: James Shedden, Vice President, Marketing

Control Engineering Inc., established in 1988, specializes in automation systems and electrical engineering. Its engineering expertise applies to the petroleum and petrochemical industries, manufacturing and production, gas, electrical and water utilities. The company will provide conceptual design and planning studies, including testing, commissioning and start up. It also offers a comprehensive

knowledge of automation systems, such as flow measurement, programmable controller applications, distributed control systems (DCS), and Supervisor Control and Data Acquisition Systems (SCADA); and electrical engineering expertise in power system studies, motor control centres, variable speed drive systems, lightning and power distribution systems.

Corrosion Service Co. Ltd.

369 Rimrock Road
Downsview, Ontario
Canada M3J 3G2
Telephone: (416) 630-2600
Facsimile: (416) 630-2393
Telex: 06-218984
AnswerBack: corrosion for
Contact: R.A. Gummon, Vice President, Engineering

Corrosion Service Co. Ltd. is a full service corrosion engineering firm, specializing in the application of cathodic protection to oil and gas pipelines, storage facilities and production equipment. A staff of more than 120 includes NACE certified corrosion specialists, cathodic protection specialists, corrosion technologists and technicians. Its services include cathodic protection designs, stray current investigations, corrosivity determinations, cathodic protection system surveys, and supervision of cathodic protection installations.



Cougar Tool Inc.

P.O. Box 5770, Station L
Edmonton, Alberta
Canada T6C 4G2
Telephone: (403) 437-5277
Facsimile: (403) 437-7666
Contact: Raymond Labonte, General
Manager

Cougar Tool Inc., supported by its engineering and research and development personnel, has been manufacturing drilling jars and stabilizers for more than 30 years. The company has developed an exceptional support network to supply and service these products. Its equipment is exported to most oil producing regions.

CPW Valve & Instrument Ltd.

11620 - 170th Street
Edmonton, Alberta
Canada T5S 1J7
Telephone: (403) 451-6888
Facsimile: (403) 454-0331
Contact: Bill Hollands, Vice President

CPW Valve & Instrument Ltd. manufactures and markets the *Hydro-Poise* line of liquid-filled pressure gauges. The gauges are used in refineries, chemical plants, gas plants, on wellheads and drilling rigs and in all resource industries. The liquid-filled dry gauges protect the movement from rust, dust, vibration and severe pulsation. The firm also produces the *Hydro-Pak* line of gauges which are used in industrial applications, such as hydraulics, and on air or water lines. These products are exported to the U.S. and Asia.

Cryogas Engineering Ltd.

1605, 700 West Pender Street
Vancouver, British Columbia
Canada V6C 1G8
Telephone: (604) 688-1773
Facsimile: (604) 688-4614
Contact: G.A. Constable, Vice President,
Marketing and Finance

Cryogas Engineering Ltd. was formed in 1985 to manufacture and supply liquid natural gas (LNG) liquefiers and fuel systems for transport vehicle applications. Cryogas has the technology, engineering, designs and experience to supply complete LNG fuel systems, particularly systems of a scale to service individual truck and bus fleets. The company will also provide installation, start up, and training services. A complete system includes LNG liquefier, LNG storage tank, LNG fuelling station, on-board vehicle tanks, and vehicle conversion to natural gas operation. In addition to conversion of spark ignition engines to natural gas, Cryogas has a proprietary dual fuel (diesel/natural gas) conversion kit.

Cullen Canadian Inc.

9300 - 192nd Street
Surrey, British Columbia
Canada V3T 4W2
Telephone: (604) 888-1211
Facsimile: (604) 888-6583
Telex: 04-365662
Contact: K. Douglas Cullen, President

Cullen Canadian Inc. manufactures diesel and gas turbine power plants and propulsion systems, using heavy duty prime movers—Wartsila Diesel, Detroit Diesel, Kawasaki Industrial Gas Turbines and others. Other products include modularized power systems, Cullen customized controls and switchgear, and power systems ranging from 100 to 20 000 Kw. The company's power systems have been successfully installed in oil and gas exploration sites in the Arctic Circle and in high ambient desert locations, as well as

offshore drilling rigs, production platforms and support vessels.

D&S Petroleum Consulting Group Ltd.

700, 125 - 9th Avenue S.E.
Calgary, Alberta
Canada T2G 0P6
Telephone: (403) 268-6500
Facsimile: (403) 269-7265
Telex: 03824649
AnswerBack: d+s des cgy
Contact: T.P. Lederhouse, Vice President,
Engineering and International
Consulting

The D&S Petroleum Consulting Group Ltd. is one of the oldest integrated consulting firms in Canada. The company offers, on a worldwide basis, a wide range of professional consulting services, technical and commercial software products, and a computer time share service bureau. The consulting services include property and corporate evaluations, reservoir and mathematical simulation studies, heavy oil, geology, petrophysics, drilling and production operations, production and revenue accounting, as well as gas chart integration. Software products address the areas of corporate evaluations and economics, production history and forecasts, log analysis, reservoir analysis, numerical simulation and production and revenue accounting. These services and software products have been provided to the petroleum industry in Canada, the U.S. and Asia.



D.B. Robinson Design & Manufacturing Ltd.

9419 - 20th Avenue
Edmonton, Alberta
Canada T6N 1E5

Telephone: (403) 463-8638
Facsimile: (403) 450-1668
Telex: 037-2966
AnswerBack: edm
Contact: Raymond O. Lemieux, Group
Manager, Marketing and Sales

D.B. Robinson Design & Manufacturing Ltd. designs and manufactures specialized high-pressure laboratory equipment for use in petroleum research and chemical process laboratories. Their equipment includes precision positive displacement pumps, visual and blind cells and associated complex systems used to evaluate hydrocarbon production techniques and the study of fluid phenomena experienced in the chemical process industry. The company's founder has been the recipient of numerous Canadian and international awards in recognition of his achievements in the measurement and prediction of the properties and behaviour of hydrocarbons and related mixtures.

Dacro Industries Ltd.

9325 - 51st Avenue
Edmonton, Alberta
Canada T6E 4W8
Telephone: (403) 434-8900
Facsimile: (403) 436-4203
Contact: Hugh Hunter, Business
Development

Dacro Industries Ltd. has been serving domestic and foreign markets since 1974. It offers complete job management to clients, including design, drafting, procurement, expediting, fabrication and inspection. The company's products for the resource industry include process towers, stabilizers, de-ethanizers, regenerators and reactors; pressure vessels—such as air receivers, storage

bullets, separators and filters; and flare stacks and related structural ladders, platforms and skids.

Datek Industries Limited

8522 Davies Road
Edmonton, Alberta
Canada T6E 4Y5
Telephone: (403) 465-1530
Facsimile: (403) 465-0130
Contact: Dallas Hauge, Director of
Marketing

Datek Industries Limited is an electronic manufacturing company. Since 1971, the company has specialized in the solutions to complex electronic problems. Most of its major clients are in resource based industries. The company has developed a reputation for its capabilities in custody transfer and remote data acquisition. Large gas and oil pipelines depend on Datek to provide them with a sophisticated level of custody transfer units and control systems to manage their complex pipeline systems.

Delta Projects Inc.

400, 8500 MacLeod Trail South
Calgary, Alberta
Canada T2H 2N7
Telephone: (403) 259-6411
Facsimile: (403) 255-1421
Telex: 038-22509
AnswerBack: del car cgy
Contact: Murray E. Propp, Vice President,
Business Development

Delta Projects Inc. is a fully integrated engineering, procurement and construction company and provides project management, process design, detailed engineering, procurement and construction services to energy related projects within Canada and abroad. Since 1966, the company and its 350 employees have played a vital role in the development of Canada's energy sector.

Diamant Boart Stratabit Ltd.

800, 407 - 2nd Street S.W.
Calgary, Alberta
Canada T2P 2Y3
Telephone: (403) 263-8025
Facsimile: (403) 262-4346
Telex: 03-821983
AnswerBack: 2500062
Contact: Cam Hamilton, General Manager

Diamant Boart Stratabit Ltd. is a world leader in the design, manufacture and implementation of diamond and P.D.C. drilling bits, as well as coring bits and core BBLs. The company has extensive experience in optimizing drilling performances in every major oil field. Their *DBS Sponge Coring System* squeezes twice as much oil saturation data. Sponge cores data correlate better with electric log data. It can provide residual oil saturation after waterflood and identify depleted zones in a formation. Sponge core data can identify oil/water zones or transition zones. Their Canadian operation has participated in many international ventures.

Digitech Information Services Ltd.

700, 840 - 7th Avenue S.W.
Calgary, Alberta
Canada T2P 3G2
Telephone: (403) 266-8622
Facsimile: (403) 233-2917
Contact: Stephen Henry, General Manager

Digitech Information Services Ltd. provides information and system resources to the resource sector. The gathering, integration and distribution of large amounts of exploration and development information plays a key role in Digitech's business strategy. Coupled with this is the provision of system resources for the running of external applications. These system resources include CPU, tape, and printing and plotting facilities. Turnaround and system response are important factors to their clients.



Industry, Science and Technology Canada / Industrie, Sciences et Technologie Canada



Dilcon Constructors Ltd.

20 Brooksbank Avenue
North Vancouver, British Columbia
Canada V7J 2B8

Telephone: (604) 986-5911

Facsimile: (604) 980-5875

Telex: 04-352848

Contact: J.B. Steward, Marketing Manager

Dilcon Constructors Ltd. performs construction work and provides project management and construction management services to projects within Canada and abroad. It is one of Canada's largest construction organizations. The company can undertake all aspects of large complex projects, electrical, instrumentation and insulation work, piping, and the installation of process equipment. Services include all activities from initial planning through physical construction and any necessary infrastructure, to commissioning of the completed facility. The company has participated in projects in Central America, the Caribbean and Asia.

DIPIX Technologies Inc.

1050 Baxtor Road, Unit 7
Ottawa, Ontario

Canada K2C 3P1

Telephone: (613) 596-4942

Facsimile: (613) 596-4914

Telex: 053-3651

AnswerBack: dipix ont

Contact: Vijay Dube, Corporate Marketing Manager

DIPIX Technologies Inc. provides *ARIES* Image Processing Systems to various oil exploration companies, Government geological agencies and mapping companies worldwide. The *ARIES* system is used to extract pertinent information from satellites and aircraft remote sensing data for the selection of drilling and exploration sites and for locating mineral and petroleum resources. This data is used with Geographic Information System

(GIS) information to provide a complete geologic analysis.

Double T Equipment Manufacturing Ltd.

2 East Lake Way

Airdrie, Alberta

Canada T4B 2B8

Telephone: (403) 948-5618

Facsimile: (403) 948-4780

Telex: 03825805

AnswerBack: double t air

Contact: Thomas Thomas, President

Double T Equipment Manufacturing Ltd. was founded in 1976. It designs and builds rail/truck inload systems, rail/truck outload systems, bulk material handling, and blending and storage systems for use in Canada and the U.S.

Dover Corporation (Canada) Ltd., Alberta Oil Tool Division

9530 - 60th Avenue

Edmonton, Alberta

Canada T6E 0C1

Telephone: (403) 434-8566

Facsimile: (403) 434-4267

Contact: J.R. Kosh, Vice President

Alberta Oil Tool, established in 1951 and a division of Dover Corporation (Canada) Ltd., has manufactured for the oil industry in Canada and the U.S. since 1963. The division manufactures the *Norris* brand of sucker rods and accessories, butterfly valves, tubular fittings, control valves and level controllers.

Dreco Energy Services Ltd.

3716 - 93rd Street

Edmonton, Alberta

Canada T6E 5N3

Telephone: (403) 463-2065

Facsimile: (403) 463-3276

Telex: 037-2243

Contact: Matt Sydor, Manager,
International Sales

Dreco Energy Services Ltd. designs, manufactures, markets and leases drilling rigs, well servicing and work over rigs, drilling machinery and downhole drilling tools used in the drilling and servicing of oil and gas wells. The company conducts manufacturing operations in Canada and the U.S. The company is a leading exporter of drilling equipment.

Dresser Canada Inc., Dresser Pump Division

Worthington Drive

Brantford, Ontario

Canada N3T 5M5

Telephone: (519) 753-7381

Facsimile: (519) 753-0845

Telex: 061-81165

Contact: J.P. Kenney, Director of Marketing

Since 1963, Dresser Pump has researched, designed and developed *Worthington* centrifugal and rotary screw and gear pumps for many services in the oil and gas industry, including production, drilling, enhancement, blending, storage, pipelining, refining, tar sands, heavy oil, offshore production platforms, and multiphase applications. The company's products are exported worldwide.



Industry, Science and
Technology Canada

Industrie, Sciences et
Technologie Canada

Canada

Drill-Rite Industries (1985) Ltd.

2435 - 22nd Street N.E.
Calgary, Alberta
Canada T2E 8K8
Telephone: (403) 250-1351
Facsimile: (403) 250-2534
Contact: Don A. Lackie, President

Drill-Rite Industries (1985) Ltd. supplies fishing tools, abandonment tools and cutting equipment, and supervision services to customers in Canada and throughout the world. The company manufactures its own line of milling equipment and wash over tools. Drill-Rite has substantial expertise in drilling, fishing and abandonment in all types of environments, on land and offshore.

Drilltel Systems Limited

3601A - 21st Street N.E.
Calgary, Alberta
Canada T2E 6T5
Telephone: (403) 250-5125
Facsimile: (403) 291-9556
Telex: 03-821172
Contact: Alex Finnie, Vice President

Drilltel Systems Limited manufactures a complete line of hydrocarbon detection equipment, including total gas detectors, hydrogen flame chromatographs, H₂S and cuttings gas detectors, as well as full computer-based rig monitoring systems. Drilltel can offer manned logging services in a variety of configurations or provide high level training and maintenance personnel. International needs for equipment were met in 1974 with the opening of manufacturing, and research and development facilities in Canada. The company exports to the U.S., Costa Rica, Africa, the U.K. and Australia.

ECS-Power Systems Inc.

201 - 150 Isabella Street
Ottawa, Ontario
Canada K1S 5A3
Telephone: (613) 236-3920
Facsimile: (613) 236-5614
Telex: 053-4499
AnswerBack: *germil ott*
Contact: V. Rudy Sligh, Vice President,
Corporate Relations

ECS-Power Systems Inc. is an engineering company and specializes in the development of advanced energy systems and associated product technologies for specialized applications. The company also provides professional engineering services to a variety of clients, including government, the power generation industry, oil and gas and marine industries. Its products include *Ocean Shuttle*—commercial nuclear-powered submarine concept for offshore underwater services, such as offshore oil and gas developments to depths greater than 50 m, exploration, construction and IMR services; *CARMA*—computer-assisted reciprocating machinery analysis used for compressor stations worldwide in onshore/offshore pipelines and diesel engine analysis. The company's services include project management, naval architecture and marine engineering, environmental engineering, as well as the design of icebreakers and ice capable ships and supply vessels.

El-Mac Pacific Distributors Ltd.

P.O. Box 80232
Burnaby, British Columbia
Canada V5H 3X5
Telephone: (604) 433-3292
Facsimile: (604) 433-6263
Contact: T. Alvin McMillan, President

El-Mac Pacific Distributors Ltd. manufactures tooling for situations where the lines at the flanges must be forced apart for service—replacing gaskets and changing blinds and installing valves in heavy duty pipelines and installations in refineries. Their *Big Mac* hydraulic flange spreaders are designed to completely overcome these problems. The flange spreaders can also be obtained with a manual adaptor. The company also manufactures a complete range of valve wheel wrenches in aluminum, bronze and steel.

Emery Apparel Canada Inc.

13140 St. Albert Trail
Edmonton, Alberta
Canada T5L 4R8
Telephone: (403) 451-4444
Facsimile: (403) 452-5100

Emery Apparel Canada Inc. manufactures high quality protective workwear. Its product line includes coveralls, uniforms, pants, shirts, and jackets. The company manufactures cold weather, fire retardant, antistatic/antidust and conventional apparel. Emery sells through offices in Canada, the U.S., the U.K., Norway and the Middle East.



Ener-Rig Electrical Supply Ltd.

2104 - 7th Street
Nisku, Alberta
Canada T0C 2G0
Telephone: (403) 955-2067
Facsimile: (403) 955-2545
Telex: 037-2966
Contact: Grady Long, General Manager

Ener-Rig Electrical Supply Ltd. was formed in 1978 as an electrical wholesaler/supply house to meet the requirements for the specialized electrical products and services required by the oil and gas industry. The company can supply information on almost all electrical items, including AC and DC variable speed drives, ABB motor control and capacitors, cable, lighting fixtures, and all other related electrical equipment. The company supplies the U.S. and numerous countries throughout Asia.

Environmental Technologies Inc.

12, 1235 - 64th Avenue S.E.
Calgary, Alberta
Canada T2H 2J7
Telephone: (403) 253-1616
Facsimile: (403) 252-1136
Contact: Richard Collens, President

Environmental Technologies Inc. is an environmental company which specializes in methane gas extraction from landfill sites and the utilization of gas as an alternate energy source (boiler fuel, electrical generation, pipeline quality gas for home heating, production of methanol and/or high quality clean burning diesel fuel). Its products and services include landfill gas recovery and utilization; landfill gas gathering system design; feasibility studies and site evaluation; project management; Entec process design and installation; and system operation, monitoring and maintenance.

EnviroSeal Engineering Products Ltd.

1310 Rocky Lake Drive
Waverley, Nova Scotia
Canada B0N 2S0
Telephone: (902) 861-3464
Facsimile: (902) 861-3522
Contact: Joe Dunford, President

EnviroSeal Engineering Products Ltd. has experience in dealing with the problems of fluid sealing. It has developed *Sealsaver* which greatly extends the operating life of mechanical seals and packing by as much as 15 times when installed in the seal cavity of industrial pumps. All grit is removed from the pumpage and expelled from the area of the seal. *Lantern Ring Coil* consists of pure teflon lantern ring material in a coil form. All machining of lantern rings for pumps, agitators, etc. is eliminated. It is available in all common cross sections in 6 ft. and 12 ft. lengths.

Epton Industries Inc.

521 King Street West
Kitchener, Ontario
Canada N2G 1C5
Telephone: (519) 744-6530
Facsimile: (519) 744-7566
Contact: Jim Aylward, Vice President

Epton Industries Inc. is an integrated manufacturer of engineered rubber and plastic products for the mining, petroleum and other primary industries. Its products for the oil and gas industry include rotary, vibrator, choke and kill hoses; blow-out preventer hoses; v-belts; steam hoses; and hydraulic hoses. The company's products are exported to the U.S. and Mexico.

F C Manufacturing Ltd.

P.O. Box 67
Nisku, Alberta
Canada T0C 2G0
Telephone: (403) 955-2693
Facsimile: (403) 955-3341
Contact: Bruce Bembridge, President

F C Manufacturing Ltd., through their Vac Inductor Products Division, designs and manufactures vacuum equipment. The company mounts tanks and various components on the clients' choice of chassis. Many of their various models are offered with complete vacuum/pressure systems. The company exports to the U.S. and U.S.S.R.

Farr Canada Ltd.

P.O. Box 3962, Station D
Edmonton, Alberta
Canada T5M 2V2
Telephone: (403) 453-3271
Facsimile: (403) 455-2432
Telex: 037-3094
AnswerBack: farr can ltd.
Contact: Karen Harrod, Administrative Manager

Farr Canada Ltd. employs more than 300 people and manufactures a large variety of products to service the oil, transportation and construction industries worldwide. It offers 14 models of hydraulic tubing and casing tongs that are utilized in work over and drilling applications on both land and offshore rigs. Farr has been involved with the casing and tubular section of the oil field industry for more than 25 years. It also custom designs drill pipe tongs and hydraulic power tongs for the slant drilling industry.



Fintube Inc., Biraghi Canada Division

1175, boulevard Alphonse-Deshaies
Beccancour, Quebec
Canada G0X 1B0
Telephone: (819) 294-2521
Facsimile: (819) 294-9505
Contact: Michel Labelle, General Manager

The Biraghi Canada Division of Fintube Inc. provides both a standard and customized line of high frequency finned tubes, studded tubes and economizers to refineries and the petrochemical industry, and for heavy oil recovery. The company provides a full range of extended surface tubes. The high frequency (HF) resistance welding process used by Biraghi to attach the fins to the exterior of the tube assures a high integrity metallurgical bond. This process is designed for high temperature, corrosive, erosive and other heavy duty applications.

Fleming Oilfield Services Ltd., Reef Mud Division

360, 800 - 6th Avenue S.W.
Calgary, Alberta
Canada T2P 3G3
Telephone: (403) 261-3925
Facsimile: (403) 261-8863
Contact: James K. Fleming, President

The Reef Mud Division of Fleming Oilfield Services Ltd. was established in 1975 and offers generic and proprietary chemicals, as well as engineering services to the resource exploration industry. It supplies all of the chemicals required to drill and complete oil and gas, mining, water and geothermal wells. Engineering services and supervision of critical fluid properties are also provided. Many products have been specifically designed to provide environmental protection while drilling or during clean-up operations. Reef Mud is very successful at programming and servicing the more difficult and technically demanding projects. The widely varied geology and

geography of the exploration industry in Canada has provided Reef Mud with the experience and technical ability to service any project worldwide.

Fluor Daniel Canada, Inc.

Box 8799, Station F
Calgary, Alberta
Canada T2J 4B4
Telephone: (403) 259-1324
Facsimile: (403) 259-1224
Telex: 0636700853
Contact: Keith McCrae, Vice President, Marketing

Fluor Daniel Canada, Inc. was incorporated in 1949 to serve the needs of the Canadian oil and gas industry. The company offers a wide range of resources, capabilities and experience for the planning, development, engineering, procurement, construction and maintenance of oil and gas facilities. It has the capability to execute projects which range from feasibility studies and conceptual designs through to major EPC projects. The company's services have been provided to clients in the U.S., Asia, Europe, Australia and Mexico.

Foothills Diamond Coring Ltd.

904, 825 - 8th Avenue S.W.
Calgary, Alberta
Canada T2P 2T3
Telephone: (403) 266-5543
Facsimile: (403) 266-7401
Contact: Robert Zeer, President

For more than 25 years, Foothills Diamond Coring Ltd. has provided quality coring service to the oil business in Western Canada. The company's product line includes core bits, jars, core barrels and related parts in a variety of sizes. The style of its equipment conforms to international standards. *Sidetrak Coring*, developed and patented by Foothills, is a process in which operators are able to cut 10 ft. of continuous 2½ in. diameter core after their hole is drilled and logged. This

is accomplished by deflecting the coring process at any interval and cutting core along side the existing bore hole.

Four M Oilfield Services Ltd.

48 Avenue & 44 Street S.E.
Redwater, Alberta
Canada T0A 2W0
Telephone: (403) 942-3888
Contact: Brian J. MacKenzie, General Manager

Four M Oilfield Services Ltd. was formed in 1971 as a well service contractor. The company manufactures customized spooling equipment and has developed *Hydra Spooler*—a totally enclosed skid mounted submersible cable spooler which is capable of spooling and transporting a reel of cable. The company exports to Asia.

FRC Composites Limited

1993 Leslie Street
Toronto, Ontario
Canada M3B 2M3
Telephone: (416) 449-1405
Facsimile: (416) 449-0536
Telex: 069-66685
AnswerBack: frccomp tor
Contact: Ergo Karuks, President

FRC Composites Limited researches and develops new products in the field of polymer modified and non-reinforced and fibre/fabric reinforced cementitious materials. Three of their principal products are *Tapecrete*, Marine Coating and *FRC-80*. These consist of a mixture of standard Portland cement, fly ash, water, inert filler materials, such as silica sand or other hard mineral aggregates, and acrylic polymer dispersion. In some applications, alkali resistant glass fibres or glass fabric or steel fibres are incorporated into the system. Their sealers are a complex mixture of an acrylic polymer dispersion and numerous chemicals normally available locally from the chemical industry. These products primarily protect



structures against corrosion. *FRC-80* is used extensively on oil and gas pipelines. Their products are used in most oil producing regions of the world.

FRE Pultrusions Inc.

4805 - 82nd Avenue
Edmonton, Alberta
Canada T6B 0E5
Telephone: (403) 466-3588
Facsimile: (403) 468-9504
Contact: Robert Santarossa, General Manager

FRE Pultrusions Inc. designs and manufactures advanced composite products. Manufacturing processes include filament winding, pultrusions and hand lay-up. Products range from conduit to the Space Station Arm Boom. The company offers fibreglass sucker rod, pressure pipe, downhole tubing, cable tray and duct rodding. Specialized advanced composite products can be custom designed and manufactured. Full FEA, laminate analysis, laboratory testing and field inspection engineering services are also provided.

Frontier Engineering & Consulting Ltd.

200, 816 - 7th Avenue S.W.
Calgary, Alberta
Canada T2P 1A1
Telephone: (403) 265-3900
Facsimile: (403) 266-1250
Contact: Philip J. Murray, President and General Manager

Frontier Engineering & Consulting Ltd. was formed in 1977 to provide engineering and consulting services. The company's operations encompass all aspects of exploration, development and production for both land and offshore oil and gas activities. Its range of services includes drilling project design, engineering, supervision, consultation and management; well completion design, engineering and supervision; reservoir engineering and

evaluation; well work over program design, engineering and supervision; secondary recovery project; pipeline, oil treatment and gas processing facility design, specification, procurement, construction and inspection; equipment and service procurement; and oil field training programs.

Galaxy Oilfield Service Ltd.

5704 - 92nd Street
Edmonton, Alberta
Canada T6E 4Y8
Telephone: (403) 437-3741
Facsimile: (403) 438-4481
Contact: Patrick Zowtuck, President

Galaxy Oilfield Service Ltd. manufactures wellheads and oil field related products. It is licensed by the American Petroleum Institute to apply the official API monogram to its wellhead component product line. The company manufactures wellheads for conventional oil and gas applications, as well as high temperature heavy oil applications. Other products include pollah rod stuffing boxes, one bolt couplings, four bolt clamps and swivels.

Gentronics Petroleum Services Limited

9, 2216 - 27th Avenue N.E.
Calgary, Alberta
Canada T2E 7A7
Telephone: (403) 250-3800
Facsimile: (403) 250-9635
Contact: Leo C. Perry, Vice President, Marketing

Gentronics Petroleum Services Limited provides engineering consulting and engineering design services to the oil and gas industry. With its experienced staff of petroleum engineers and its association with Genco Pressure Control Limited, the company provides complete reservoir modelling and well testing services. In conjunction with their engineering services, Gentronics offers a complete range of Quartz Crystal Electronic surface,

subsurface pressure and temperature measurement instrumentation.

Geonautics Limited

P.O. Box 8143, 34 Glencoe Drive
St. John's, Newfoundland
Canada A1B 3M9
Telephone: (709) 364-6015
Facsimile: (709) 364-3550
Telex: 016-4596
AnswerBack: nordco
Contact: G.J. Hodgson, General Manager

Geonautics Limited provides a fully integrated offshore survey service and has many years of experience in marine logistics and high resolution geophysical services. Their capabilities are directed at the definition of seabed and shallow geologic conditions pertinent to engineering concerns. Surveys utilizing echo sounder, sidescan sonar, sub-bottom profiler and multichannel high resolution seismic are conducted for drill site geohazards, production site investigations, power cable and pipeline routing and regional geological studies. The company's expertise has been developed offshore of Eastern Canada where more than 60 drill sites, three production sites and four pipeline routes have been surveyed.

Geopetrol Marketing & Distributing Ltd., North-Tech Environmental Division

6029 - 103A Street
Edmonton, Alberta
Canada T6H 2J7
Telephone: (403) 434-9431
Facsimile: (403) 438-6984
Telex: 037-42552
Contact: Louis Galick, General Manager

North-Tech Environmental Division of Geopetrol Marketing and Distributing Ltd. provides environmental products and services. Their spill recovery products include oil sorbents—polypropylene, biosorb biodegradable oil sorbent; storage



units, containment booms, skimmer, portable tanks, pumps, hoses and fittings. The company also provides spill clean-up and recovery services, and training services.

Geophysics GPR International Inc.

2545, rue Delorimier
Longueuil, Quebec
Canada J4K 3P7
Telephone: (514) 679-2400
Facsimile: (514) 521-4128
Telex: 055-60495
Contact: Michel Gariépy, Vice President,
Research and Development

Geophysics GPR International Inc. is a consulting engineering firm, specializing in geophysics, geology, data interpretation and specialized training. The company concentrates on mineral and oil exploration, drilling programs, site evaluation, large civil engineering works, underwater reconnaissance, hydrogeology, vibration and blasting control, environmental protection, technology transfer, and staff training. GPR's instruments are technologically advanced, precise, lightweight and adaptable, and allow their staff to perform the work required in remote sites.

Geotechnical Resources Ltd.

4500 - 5th Street N.E.
Calgary, Alberta
Canada T2E 7C3
Telephone: (403) 230-4000
Facsimile: (403) 230-4370
Telex: 03-821172
AnswerBack: cgy
Contact: Arne Matiesen, Chairman

Geotechnical Resources Ltd. offers the complete range of services required to efficiently explore, develop and produce petroleum resources. The company has provided laboratory services, laboratory equipment and consulting services for clients worldwide. Geotechnical offers its

clients an integrated source for complete formation and reservoir evaluation for computer modelling of any reservoir for producing condition or EOR methodology. All aspects of Geotechnical's operations and business are supported by a services group. Standard services for core, petrology, fluids and gases are complemented by a full range of PVT, special core analysis, core displacement and reservoir simulation services. In providing these services, the company can integrate the analysis results to provide cost effective, continuous control of sophisticated, multiphase laboratory programs.

Global Thermoelectric Inc.

333 - 50th Avenue S.E.
Calgary, Alberta
Canada T2G 2B3
Telephone: (403) 253-3552
Facsimile: (403) 253-4607
Telex: 038-24680
AnswerBack: global teg cgy
Contact: William Lancaster, President

Global Thermoelectric Inc. manufactures remote power and stationary and portable thermoelectric DC generating systems (20 - 5 000 W). It also provides engineering and complete mechanical services, specializing in stainless steel, anconal, aluminum and hastelloy, sheet metal working and light alloy welding. Their generators are used in 47 countries.

GN Corporations Inc.

6, 4312 Ogden Road S.E.
Calgary, Alberta
Canada T2G 4V3
Telephone: (403) 290-1720
Facsimile: (403) 265-2851
Contact: Ambrose Chun, Vice President,
Marketing and Sales

GN Corporations Inc. has served the international oil and gas industry for 25 years as a precision manufacturer of high-pressure oil field equipment, wiring equipment and trucks, and downhole tools. GN's general line of oil field equipment includes low and high-pressure unions, connections, flanges, treating irons/flowlines, check valves, ball injectors/ball guns, tree savers designed to protect the wellhead from high-pressure and corrosive or abrasive fluids, a complete line of manual and hydraulic wireline BOPs, stuffing boxes, lubricator risers, wireline tools and completion equipment.

Gris Gun Manufacturing Ltd.

R.R.1
Red Deer, Alberta
Canada T4N 5E1
Telephone: (403) 340-1017
Facsimile: (403) 340-1018
Contact: Delton Campbell, President

Gris Gun Manufacturing Ltd. was founded in 1979 to serve the completions and work over sector of the oil and gas industry. Gris Gun pioneered the development of the expendable perforating gun and introduced the first large expendable gun to the oil industry. Since then, large expendable guns have steadily grown in popularity as an efficient completions tool. The tubular charge loading strip was another invention of Gris Gun. These products are known for their performance successes in some of the world's toughest downhole conditions.



Hall Compressors Canada Limited

4604 Manitoba Road S.E.
Calgary, Alberta
Canada T2G 4B8
Telephone: (403) 287-0526
Facsimile: (403) 243-3155
Contact: A.F. Moon, President and General Manager

Hall Compressors Canada Limited offers a line of balanced-opposed, reciprocating, 2 throw, 75 to 1 200 HP, 600 to 1 800 rpm compressors for gas applications. The unique drive-through crankshaft provides the customer with the ability to add or delete throws with a minimum amount of cost and time. Factory parts are available from a very substantial inventory, and service is available through factory authorized personnel. The Hall compressor is currently in use throughout the U.S. and Canada. Its applications include vapour recovery, pipeline boosters, gas injection and landfill gas for cogeneration. These units may be engine or electric motor driven.

Hangwell Coil Tubing Services Ltd.

104, 3750 - 19th Street N.E.
Calgary, Alberta
Canada T2E 6V2
Telephone: (403) 250-8004
Facsimile: (403) 291-5408
Contact: Fred Jagert, President

Hangwell Coil Tubing Services Ltd. was founded in 1988 to meet a growing demand for coil tubing wellhead hangers, accessories and parts. This system was designed specifically as a safe and economical way to perform tasks never before challenged—landing and retrieving continuous tubing in a well under pressure. Hangwell is an engineering, manufacturing and service company for all types of coil tubing wellheads and accessories.

Hardy BBT Limited

219 - 18th Street S.E.
Calgary, Alberta
Canada T2E 6J5
Telephone: (403) 248-4331
Facsimile: (403) 248-2188
Contact: Brian E.W. Dowse, Senior Vice President

Hardy BBT Limited provides specialized engineering and environmental services to the oil and gas industry. With more than 450 staff and 20 office locations, the company has completed more than 10 000 assignments in its 40 years of service. The company provides professional testing services at every stage of an oil and gas project. Its specialties include pipeline corridor location studies and feasibility studies. The company is normally involved in a project from the site selection stage through to the quality assurance stage. Clean-up of past oil and gas sites is an area of expanding expertise.

Henderson, Barwick Inc.

176, rue Peel
Montreal, Quebec
Canada H3C 2G7
Telephone: (514) 935-4623
Facsimile: (514) 935-2553
Contact: Robert A. Monet, Senior Vice President

Henderson, Barwick Inc. operates two fully equipped production facilities. Its machine shop performs the precision machine operations required in the manufacture of heat exchangers, pressure vessel and valve components, including lathes, boring mills, milling machines and radial arm drills. It also manufactures a complete range of light wall, stainless steel pipe and fittings, including smooth flow elbows, tees, reducers, Vanstone Rings and backup flanges.

Hi-Point Industries Ltd.

P.O. Box 2535, Station M
Calgary, Alberta
Canada T2P 2N6
Telephone: (403) 290-6650
Facsimile: (403) 290-7751
Telex: 038-21503
AnswerBack: nova cgy
Contact: S. Ho Lem, President and Secretary

Hi-Point Industries Ltd. was incorporated in 1983 and manufactures peat-based oil absorbent products in particulate form (OCLANSORB) and tubular sock form (SORB-SOX). OCLANSORB is non-toxic, offers instant absorption, containment and retention; absorbs oil (not water); meets Canadian and U.S. leachate standards and is 15 times more effective than clay. SORB-SOX are ideal for industrial and in-plant use and are ten times more effective than the leading corn husk absorbent socks. Their products are being used by fire departments, airlines, emergency response teams, transportation companies, armed forces, hazardous materials management consultants, oil refineries, and many industrial companies. These products are exported to the U.S., U.K., Western Europe and Australia. Agents represent the products in all major European countries and the Middle East.

Hobic Oil Bit Industries Corp.

260, 11791 Hammersmith Way
Richmond, British Columbia
Canada V7A 5C6
Telephone: (604) 241-0086
Facsimile: (604) 241-0087
Contact: John Panusa, General Manager

Hobic Oil Bit Industries Corp., established in 1986, manufactures diamond core and drill bits in diameters to 12.25 inches. Hobic bits have been sold throughout Canada, the U.S. and Australia.



Hooper Welding Enterprises Limited

1390 Advance Road
Oakville, Ontario
Canada L6L 6L6
Telephone: (416) 827-2600
Facsimile: (416) 827-1600
Contact: Jim Wright, Sales Manager

Hooper Welding Enterprises Limited specialize in pressure vessels, storage tanks, and structural fabrication. Hooper has the technology to provide quality welding using a variety of carbon steels, stainless steels and many exotic materials. They offer over 25 welding procedures and guarantee the appropriate process for the job. The company has a staff of 40 professionals and employs in-house design and engineering capabilities. Hooper serves clients in the U.S., South America and Asia.

Hutchinson Body, Mudguard and Radiator Works Ltd.

20 Alness Street
North York, Ontario
Canada M3J 3H4
Telephone: (416) 661-9330
Facsimile: (416) 661-9165
Contact: Norman F. Hutchinson, President

Hutchinson Body, Mudguard and Radiator Works Ltd., established in 1918, is a major Canadian manufacturer of custom built tankers for the Canadian and U.S. markets. Available in lengths to 48 ft. and with up to five axles, these tankers can be built in steel, stainless steel or aluminum.

Hycal Energy Research Laboratories Ltd.

1338A - 36th Avenue N.E.
Calgary, Alberta
Canada T2E 6T6
Telephone: (403) 250-5800
Facsimile: (403) 291-0481
Telex: 03-821172
Contact: Douglas W. Bennion, President

Hycal Energy Research Laboratories Ltd. performs applied research and provides consulting services to the petroleum industry in the area of reservoir engineering, production engineering, and enhanced recovery. The company's engineers have substantial experience in miscible flooding, heavy oil recovery, simulation and all other areas of reservoir and production engineering. It has research facilities, engineering consulting specialists, and a complete set of mathematical simulators. Hycal has performed work for over 70 companies in Canada, the U.S., Europe, Asia, Africa and South America. It has provided design data and developed processes for a number of pilots and reservoirs in Canada, the U.S., China, Madagascar, Turkey and Peru.

Hyprotech Ltd.

400, 119 - 14th Street N.W.
Calgary, Alberta
Canada T2N 1Z6
Telephone: (403) 283-7710
Facsimile: (403) 283-4764
Telex: 03-821172
Contact: Tony Vysniauskas, Principal and Director

Incorporated in 1976, Hyprotech Ltd. has grown to become an internationally recognized company, specializing in consulting, engineering, and computer software services to all sectors of the energy industry. Hyprotech is the author of the HYSIM flowsheet simulation program. It was designed for the gas processing, oil refining, petrochemicals,

chemicals, and synthetic fuel industries. HYSIM is a complete and comprehensive flowsheet simulator, designed for steady-state simulation of gas processing, oil refining, petrochemical, chemical and synthetic fuels facilities. This proven mainframe simulation package has been converted to microcomputer technology. The microcomputer version is identical to the mainframe version, but has the advantages of a user-dedicated environment and extensive graphics.

I.M.W. Industries Ltd.

45831 Hocking Avenue
Chilliwack, British Columbia
Canada V2P 1B5
Telephone: (604) 795-9491
Facsimile: (604) 792-3806
Contact: Fred J. Feistmann, Vice President

I.M.W. Industries Ltd., established in 1958, is a world leader in the manufacture of cold roll forming equipment and related machinery. In 1985, a subsidiary company was formed to manufacture dedicated natural gas compressor and dispensing equipment for vehicular applications. The robust radial throw compressors feature capacities to 400 scfm and discharge pressures to 4 000 psig. The equipment is very versatile—can be adapted easily to different well or line conditions, is water-cooled, has a low rpm and non-lubricated cylinders. The company has supplied compression equipment for urban transit bus fleet fuelling facilities in The Netherlands and Colombia, and is currently designing the equipment for the B.C. Transit bus project in Vancouver, Canada.



I.P. Constructors Ltd.

5430 - 30th Street S.E.
Calgary, Alberta
Canada T2C 1G2
Telephone: (403) 279-7533
Facsimile: (403) 279-3635
Telex: 03-821154
AnswerBack: ip constr cgy
Contact: Clint Elgar, Export Director

I.P. Constructors Ltd., incorporated in 1976, is an engineering company and serves a broad range of clients throughout the world in the oil and gas, industrial process and resource industries. The company's services include engineering and detailed design; equipment manufacturing and assembly of piping; and structural, electrical and instrumentation materials and equipment for modular process equipment packages and facilities. It also custom manufactures pressure vessels, pipeline pigging equipment, process vessels, water treatment and injection equipment.

ICI Construction Economists of America, Inc.

64 Guided Court
Rexdale, Ontario
Canada M9V 4K6
Telephone: (416) 743-4854
Facsimile: (416) 743-5936
Contact: Norman H. Matthews, President

ICI Construction Economists of America, Inc. is a Canadian company that provides construction cost consulting and quantity surveying throughout North America. The firm's services include construction cost consulting and analysis, quantity surveying, construction litigation support services, mortgage monitoring/payment certification services for lending institutions, scrutiny of change orders on large projects, tender support services, 'expert witness' in construction litigation, and project management.

Imperial Rubber Co. Ltd. Girard Polly Pig Canada Division

P.O. Box 139
Nisku, Alberta
Canada T0C 2G0
Telephone: (403) 955-8780
Facsimile: (403) 955-8921
Contact: Garry Farr, Sales Manager

Imperial Rubber Co. Ltd. has been manufacturing and marketing rubber and urethane products for the well servicing and pipeline industries for 10 years. These products include rubber and urethane cement plugs, wooden cement plugs, conveyor idler discs, bridge pads, inflatable packers, packer elements, seals, *Maxi-Cup* pigs, *Maxi-Discs* pipeline pigs, and custom moulded polyurethane and rubber products. The company's Girard Polly Pig Canada Division manufactures *Polly Pigs* in sizes ranging from 2 to 56 inches. Their internal pipeline cleaners are made of the highest quality polyurethane flexible foam and with a variety of polyurethane rubber coating and abrasives for dryers, wipers and scrapers; these can negotiate 90 degree elbows.

Import Tool Corporation, Ltd.

440, 910 - 7th Avenue S.W.
Calgary, Alberta
Canada T2P 3N8
Telephone: (403) 261-3032
Facsimile: (403) 263-4955
Contact: Robert K. MacLeod, President

As a service supply and manufacturing company, Import Tool Corporation, Ltd. (ITC) has been servicing industry since 1952. It has developed cementing tools, including the *ITC Casing Swivel* (to allow for rotation of casing in the tension above a stage cementing collar). This product is available for world markets and is manufactured in 4.5, 5.5, 7 and 9 1/2 in. sizes. It is used by many operators, including Esso, Mobil and Shell.

Integra Casting Inc.

1333 Chevrier Boulevard
Winnipeg, Manitoba
Canada R3T 1Y4
Telephone: (204) 453-6833
Facsimile: (204) 453-3803
Contact: H.H. Roeder, Manager, Specialty Engineering

Integra Castings Inc. is a major producer of oil pumping unit castings. The castings weigh from ounces to 5 000 lb. in various grades of ductile and grey iron, using green sand and no-bake molding processes. The company's markets include Canada and the U.S.

Indutech Canada Limited

5210 - 54th Avenue S.E.
Calgary, Alberta
Canada T2C 2V8
Telephone: (403) 279-2222
Facsimile: (403) 236-1522
Contact: Derek J. Wolstenholme, President

Indutech Canada Limited exports to three continents and offers extensive expertise in the field of induction heating and the quenching of steel. The company has developed and applied this technology to pipe bending procedures and the production of an abrasion resistant steel pipe—offers all of the advantages of normal carbon steel plus excellent resistance to abrasion. Indutech also manufactures *NASPipe*—abrasion resistant steel pipe that is produced by induction heating and controlled quenching. A complete piping system, including bends and fittings, is available. *NASPipe* has proven to be an economic investment in applications where piping systems have required frequent rotation and replacement. The ability to ultrasonically monitor wear enables the operator to schedule maintenance and avoid potential environmental damage.



Industry, Science and
Technology Canada

Industrie, Sciences et
Technologie Canada



**INTERA Information
Technologies Corporation**

2500, 101 - 6th Avenue S.W.
Calgary, Alberta
Canada T2P 3P4
Telephone: (403) 266-0900
Facsimile: (403) 265-0499
Telex: 03-824537
Contact: Marc C. Wide, Vice President,
Marketing

INTERA Information Technologies Corporation provides data collection, data processing and data interpretation products and services to petroleum and resource companies and governments worldwide. Through the efforts of 500 people in three business units, the company is a leading provider of these technologies in two principal business segments—petroleum and resource management and mapping reconnaissance—to a broad base of customers in approximately 85 countries. The company's U.K. business unit supplies engineering software, exploration data products, and consultancy services to the petroleum industry. The Canadian-based business units specialize in providing remote sensing data products, such as radar image maps from proprietary STAR systems, magnetic maps from airborne geophysical equipment and the reproduction of infra-red and photographic products from aerial survey systems. STAR-MAP, a new process which is close to developmental completion, produces topographic radar images at scales of 1:50 000 and 1:10 000, with contour overlays and associated digital elevation models (DEMs).

**Intercomp Resource
Development & Engineering
Ltd.**

1000, 840 - 7th Avenue S.W.
Calgary, Alberta
Canada T2P 3G2
Telephone: (403) 265-6550
Facsimile: (403) 266-5202
Telex: 03-824857
AnswerBack: ssi cgy
Contact: Peter Stanton, President

Intercomp Resource Development & Engineering Ltd. offers fully integrated consulting services to the upstream petroleum industry. Its services cover the disciplines of geology/petrophysics, reservoir engineering, production/facilities engineering and pipeline engineering. Engineering studies have been conducted worldwide and cover the complete range of services from relatively routine pool reserves evaluations to complex studies involving full field development plans for implementation of enhanced oil recovery schemes, such as hydrocarbon solvent floods or in situ combustion projects. The engineering consulting services are supplemented by formal training programs in reservoir computer simulation, as well as application training for our clients. A full spectrum of petroleum engineering software products are also available which complement the various consulting disciplines.

**International Cooling Tower
Inc.**

3310 - 93rd Street
Edmonton, Alberta
Canada T6N 1C7
Telephone: (403) 469-4900
Facsimile: (403) 469-5838
Contact: Larry Johnston, General Manager

International Cooling Tower Inc. has provided design, site and application engineering, equipment supply, maintenance, inspection, repair and upgrade on industrial cooling towers for more than 30 years. The company employs 75 people and owns a modern engineering and parts supply facility. The company sells and erects new cooling towers in Western Canada, ranging in size from 500 to 28 000 gal./min. per cell capacity. The company has gained invaluable experience in cold weather application and operation of cooling towers. In addition, the company repairs, services, tests and upgrades all makes of cooling towers, and maintains the largest stock of cooling tower components in Canada. The company serves the Western Canadian and U.S. markets. Its services are available on a worldwide basis.

International Hard Suits Inc.

1174 Welch Street
North Vancouver, British Columbia
Canada V7P 1B2
Telephone: (604) 986-5600
Facsimile: (604) 986-7125
Contact: J. Scott Morrison, Sales Manager

International Hard Suits Inc. was formed in 1986 to produce the NEWTSUIT—an atmospheric diving suit. Beginning with the development of a pressure balanced rotary joint, a deep sea diving suit was designed around the joint. The NEWTSUIT allows for deep diving capabilities to 1 000 ft. at a fraction of the cost of alternative methods; eliminates all of the problems of decompression while allowing excellent mobility on the sea



floor, can be operated with a crew of four, is easily aircraft transportable and requires very little deck space. A thruster pack for mid-water work has been developed which allows the *NEWTUIT* to be used for surveys, inspections and production platform maintenance.

International Pipeline Engineering Limited

450 Midwest Road
Scarborough, Ontario
Canada M1P 3A9
Telephone: (416) 288-0896
Facsimile: (416) 288-1416
Contact: Fraser Farmer, Manager,
Marketing

International Pipeline Engineering Limited (Pipetronix) is a subsidiary of TransCanada Pipelines Limited. TransCanada has owned and operated one of the world's largest natural gas transmission systems for more than 25 years. Pipetronix makes TransCanada's expertise in the natural gas industry available to pipeline owners and operators, as well as to governments involved in the natural gas industry. One of the major services offered is the inspection of oil and gas pipeline products to detect metal loss, dents and other pipeline defects. This service, using magnetic flux inspection tools, is provided worldwide.

International Radiography and Inspection Services (1976) Ltd.

5908 - 96th Street
Edmonton, Alberta
Canada T6E 3G3
Telephone: (403) 437-2022
Facsimile: (403) 436-4873
Contact: Bob Taylor, Manager, Marketing
and Sales

International Radiography and Inspection Services (1976) Ltd. is a non-destructive and visual inspection service company. Established in 1953, the company conducts training courses and seminars for its staff and clients. The Non-destructive Testing Division's services include radiographic inspection, ultrasonic inspection, magnetic particle inspection, liquid penetrant inspection, eddy current inspection, positive material identification, infra-red heat survey, hardness testing, and videoprobe inspection.

The Quality Control/Quality Assurance Division offers testing and checking materials, welding inspection, dimensional checking, shop inspection, witnessing of performance tests, packing and marking inspection, progress reporting, expediting, quality assurance, pipe inspection, and welder and operator performance tests (A.B.B. approved).

IPSCO Inc.

P.O. Box 1670
Regina, Saskatchewan
Canada S4P 3C7
Telephone: (306) 949-3530
Facsimile: (306) 949-3500

IPSCO Inc. is a major Canadian steelmaker with plants throughout Western Canada and the U.S. IPSCO manufactures a diverse range of steel and steel products, including structural sections and pipe. The company's markets are primarily in North America and Asia.

Iron Horse Compression Ltd.

9852 - 33rd Avenue
Edmonton, Alberta
Canada T6N 1C6
Telephone: (403) 462-6847
Facsimile: (403) 450-0124
Contact: Gordon J. Sheward, Director

Iron Horse Compression Ltd. manufactures a low-maintenance, very efficient beam mounted gas compressor which is operated by the walking beam of a pump jack. The compressor is used to enhance oil recovery from older wells with lower bottom hole pressure and high casing pressure. It is non-lubricated, manufactured in accordance with API 618 and ASME VIII, and operates efficiently in temperatures ranging from -40° C to +50° C. Return on investment is often achieved in less than two months. The units can enable existing pump jacks, powered by LPG to be converted to solution gas as a fuel. It also manufactures a natural gas desiccant dehydrator. With no moving parts, this single tower unit produces maximum dew point depression and operates well with natural gas inlet temperatures of 20° C and lower.

Isko Heat Exchangers Ltd.

2700, rue De Miniac,
St-Laurent, Quebec
Canada H4S 1K9
Telephone: (514) 337-5192
Facsimile: (514) 337-5482
Contact: Isly Khan, President

Isko Heat Exchangers Ltd. designs and manufactures customized shell and tube heat exchangers for the petrochemical, gas and other industries. The exchangers are designed to meet ASME, TEMA, CSA and other international codes.



Island Sandblasting (1987) Ltd.

P.O. Box 2561
Charlottetown, Prince Edward Island
Canada C1A 8C2
Telephone: (902) 569-4400
Facsimile: (902) 569-4400
Contact: Neil A. Shaw, President

Island Sandblasting (1987) Ltd. performs sandblasting, waterblasting, coating applications, structural painting, glass beading, and storage tank lining. It has worked in plant shutdown conditions, oil refineries, and on marine vessels and pipeline docks.

ITT Cannon Canada Limited

Four Cannon Court
Whitby, Ontario
Canada L1N 5V8
Telephone: (416) 668-8881
Facsimile: (416) 668-4152
Telex: 06-981357
Contact: Donald McCool, Product Manager

ITT Cannon Canada Limited is a major supplier of specialized electrical and fibre optic interconnect devices to the oil and gas industry. The company continues to refine and improve hostile environment interconnect devices for exploration, offshore and drilling applications. A leader in geophysical exploration, the company developed metallized ceramic technology for use in single pin feed-thrust and high temperature/high-pressure, hermetically sealed, multipin connector, this increased reliability and performance to unprecedented levels. Towed array couplers were developed for use in offshore applications; these couplers reduced weight and overall size and allowed for increased quantities of information to be processed.

ITT Industries of Canada Ltd., ITT Barton Instruments

3840 - 11A Street N.E.
Calgary, Alberta
Canada T2E 6M6
Telephone: (403) 291-4814
Facsimile: (403) 291-0060
Telex: 038-21536
Contact: Joseph Incontri, General Sales Manager

ITT Barton Instruments, a division of ITT Industries of Canada Ltd., is engaged in the design, manufacture, sale and service of process instruments for worldwide markets. The company provides mechanical, electromechanical, and electronic instrumentation that sense, monitor, compute, record and control various conditions of liquids and gases. This instrumentation is used to measure variables such as flow, level, differential pressure, density, corrosion and other physical and chemical properties of fluids.

Jacques, Whitford Group Ltd.

3 Spectacle Lake Drive
Dartmouth, Nova Scotia
Canada B3B 1W8
Telephone: (902) 468-7777
Facsimile: (902) 468-9009
Contact: David V. Fanning, Director, Marketing

Jacques, Whitford Group Ltd. is an Eastern Canada-based engineering group, established in 1972, and offering a comprehensive range of geotechnical, hydrogeological, environmental, materials and mining engineering, petroleum services, and other related consulting services to clients in industry and government. The company's 250 professional staff provide geotechnical investigations, foundation and earthwork design, offshore geotechnical investigations, materials testing/inspection—CSA, ASTM, materials research, geomechanics, rock mechanics, subsidence evaluations, ice/Arctic

engineering, environmental impact studies, environmental audits, contaminant investigation and remediation, waste management, hydrogeology, water resource assessment, underground storage tank assessment, general site assessments, archaeological assessments, and agricultural engineering.

Jacques/McClelland Geosciences Inc.

3 Spectacle Lake Drive
Dartmouth, Nova Scotia
Canada B3B 1W8
Telephone: (902) 468-7777
Facsimile: (902) 468-9009
Contact: David V. Fanning, Director, Marketing

Jacques/McClelland Geosciences Inc. was founded in 1980 to provide offshore geotechnical and geophysical services for hydrocarbon exploration on Canada's East Coast. The firm is backed nationally by the complete engineering and environmental services of the Jacques, Whitford Group and internationally by their affiliation with Fugro-McClelland BV. The company provides mobilization of specialized drill ships with geotechnical sampling and in situ testing capability, on-board geotechnical laboratory testing, onshore advanced laboratory testing, detailed characterization of sub-seabed geotechnical conditions, analysis of bearing capacity and deformations of gravity-based structures, piles and other structures founded on or below the seafloor, and geophysical and geotechnical services related to marine pipelines and cables. Their clients include national and international companies involved in offshore hydrocarbon exploration and production of marine cables and pipelines.



John T. Hepburn Limited

7450 Torbram Road
Mississauga, Ontario
Canada L4T 1G9
Telephone: (416) 671-2200
Facsimile: (416) 671-0499
Telex: 06-968793
AnswerBack: jhepburn msga
Contact: Ray Pillon, Vice President, Sales
and Marketing

John T. Hepburn, Limited designs and manufactures machinery and equipment for the offshore oil industry (semi-submersible oil rigs and drill ships). Its products include mooring winches, windlasses and fairleaders which are capable of handling any size of wire rope and chain. With its combination traction winch/windlass for efficient handling of combination wire rope and chain mooring lines, Hepburn is a world leader in deep water mooring technology. The company also manufactures special cranes, including hydraulic BOP cranes for the positioning and servicing of blow-out preventer racks and pipe handling cranes. Hepburn's Underway Replenishment Systems are available for vessels to offshore oil rig transfer.

Kilborn Inc.

2200 Lake Shore Boulevard West
Toronto, Ontario
Canada M8V 1A4
Telephone: (416) 252-5311
Facsimile: (416) 231-5356
Contact: L. Blake, Manager, Business
Development

Kilborn Inc. serves the oil refining, gas, chemicals, petrochemicals, manufacturing and minerals industries in Canada and abroad. Its services include process design, feasibility studies, cost estimates, detailed design, procurement and construction management. Recent projects and studies have been conducted in the areas of oil refinery process units, utilities and revamps; oil refinery waste

management; environmental studies and installation of facilities; plastics compounding and extrusion; polymer chemicals; oil sands and heavy oil upgrading; and plant instrumentation upgrades and replacement. Established in 1947, Kilborn has provided services for more than 1 000 projects worldwide.

King Equipment Manufacturing Corp.

1401 Dundas Street
Woodstock, Ontario
Canada N4S 7Z3
Telephone: (519) 539-6111
Facsimile: (519) 539-3860
Contact: Ron Ferrell, International Sales
Manager

King Equipment Manufacturing Corp. is a manufacturer and distributor of dependable utility and transportation equipment and is dedicated to an immediate response service. The company will analyze customer requirements and engineer a solution which will provide a cost-effective answer to customers' specific problems. Its broad trailer equipment is used for the transportation of a wide variety of payload. The company's trailer equipment includes pneumatic and liquid tanker trailers and low-bed trailers, ranging from 35 to 100 t. Its utility equipment includes digger derricks to 48 000 lb. capacity, stiff boom cranes to 44 000 lb. capacity, material handling aerial devices to 85 ft., truck mounted winches, and hydraulic tools.

Koch Engineering Company Limited

4750 Sheppard Avenue East
Agincourt, Ontario
Canada M1S 3V7
Telephone: (416) 293-3656
Facsimile: (416) 293-6409
Contact: W. Peter Barker, Executive Vice
President

Koch Engineering Company Limited is engaged in the design and manufacture of heat exchangers, including shell and tube type, plate and frame type, and hairpin double pipe/multitube type. Its principal markets are in the oil, chemical, natural gas, petrochemical and electrical power generation markets. The company has exported more than 1 000 exchangers to numerous countries worldwide.

Kubota Metal Corporation, Fahramet Division

25 Commerce Road
Orillia, Ontario
Canada L3V 6L6
Telephone: (705) 325-2781
Facsimile: (705) 325-5887
Telex: 06-875587
AnswerBack: FAHRAMET ORIL
Contact: Allan Gillespie, Vice President,
Marketing and Sales

Kubota Metal Corporation is a custom steel foundry with centrifugal and static casting capabilities. Its facilities include complete non-destructive testing, machine shop and fabrication capabilities. Castings are produced in heat resistant, corrosion resistant alloys, as well as carbon and low alloy steels. For the oil and gas industry, Kubota produces bi-metallic tubing and manifolds, reformer tubes, pyrolysis coils, tube sheets and tube supports, and valve and pump bodies. The company serves most world markets.



Kudu Industries Inc.

5915 - 36th Street S.E.
Calgary, Alberta
Canada T2C 2J1
Telephone: (403) 279-5838
Facsimile: (403) 279-2192
Contact: Robert A.R. Mills, President

Kudu Industries Inc. supplies a wide range of progressing cavity oil well pumps. It also manufactures the drive systems which may be powered electrically, hydraulically, or with internal combustion engines. Kudu is a leading manufacturer and supplier in Canada. The senior principal of Kudu Industries has worked in the development of the progressing cavity (Moineau) pumps technology since 1978. Progressing cavity pumps feature the lowest capital cost and lowest operating expense for pump volumes to 2 500 bbls/day (400 m³/day) with pumping fluid levels down to 6 600 ft. (2 000 m). These pumps will also pump heavy crude with high sand content which cannot be pumped by any other means.

Labsoft Inc.

803 Mailand Street
London, Ontario
Canada N5Y 2W6
Telephone: (519) 667-2041
Facsimile: (519) 667-2042
Contact: Stuart Bevan, President

Labsoft Inc. produces sophisticated control devices for the oil industry. Based on many years of industrial control experience, the devices employ the latest computer technology to enhance oil well productivity. Utilizing the most advanced microchip technology, the company's range of intelligent controllers meet the most exacting production demands. Their *Optimizer* series of products include an advanced sensing device with no moving parts, control software with adaptive capabilities, and all necessary components for easy installation and maintenance. The products are rugged and can be easily

installed by field personnel. The devices are user friendly, easy to maintain, withstand environmental extremes, increase production, enhance efficiency, and decrease maintenance costs.

Lambton College—Fire, Safety and Environmental Division

P.O. Box 969, 1457 London Road
Sarnia, Ontario
Canada: N7T 7K4
Telephone: (519) 542-7751
Facsimile: (519) 332-6583
Contact: L. Sandra Carlton, Industrial Training Consultant

Lambton College provides training to commercial, industrial, marine and defence clients worldwide. Training is available in industrial fire fighting, spill response and control, marine safety, management of emergencies, fire ground commander, transportation of dangerous goods (TDG), emergency response (basic and advanced), TDG regulations, gas testing and confined space entry/rescue, and automotive and general industry fire fighting. In addition to the scheduled training, the college will conduct training at clients' locations.

Lantec Industries Inc.

5827 Production Way
Langley, British Columbia
Canada V3A 4N5
Telephone: (604) 530-0737
Facsimile: (604) 530-0737
Contact: K.A. McIntyre, Vice President, Marketing

Lantec Industries Inc., founded in 1969, serves numerous industries, including oil and gas (exploration, production, servicing and pipe laying). The company's primary products are hydraulically-driven winches, hoists and drives. With 19 years' experience in this field, Lantec will custom build a product to meet exact performance requirements. Manufacturing consists of a full range of production machinery, including turning, boring, milling, drilling

and gear cutting. Other manufacturing operations include fabricating, assembly, testing and painting. Lantec utilizes basic proven components and the latest in manufacturing techniques.

Lift Systems International Ltd.

P.O. Box 1089
Battleford, Saskatchewan
Canada S0M 0E0
Telephone: (306) 937-7766
Facsimile: (306) 937-2257
Contact: Larry Gabruch, Vice President and General Manager

Lift Systems International Ltd. (LSI) has established itself as one of Canada's major producers of oil field pumping units and has more than 2 000 units currently operating in North America. Its pumping units are based on a proven design technology and have a history of success in demanding heavy oil applications and severe North American climates.

Lister Industries Ltd.

7410 - 68th Ave
Edmonton, Alberta
Canada T6B 0A1
Telephone: (403) 468-2040
Facsimile: (403) 469-0383
Contact: Don Rowland, President

Lister Industries Ltd., established in 1988, manufactures auxiliary oil field equipment. The company's snow melters feature a 1 500 barrels/day capacity and can also be used for oil spill clean-up. The *Lister Rig Mats* are support pads for rigs and were originally designed for the Tundra. Lister also manufactures air heaters which are designed to augment the steam heat of the boilers. The company's equipment is used in most oil producing regions of the world, including Canada, the U.S., the U.S.S.R., and the Middle East.



Luff Industries Ltd.

3528 - 80th Avenue S.E.
Calgary, Alberta
Canada T2C 1J3
Telephone: (403) 279-3555
Facsimile: (403) 279-5709
Contact: Philip Arnold, Sales
Representative

Established in 1979, Luff Industries Ltd. has 35 employees and serves the metal fabrication sector. Its Pressure Products Division designs and builds vessels, piping and SKID packages for the Canadian and U.S. markets.

Lynx Tool Company Ltd.

406 - 22nd Avenue
Nisku, Alberta
Canada: T0C 2G0
Telephone: (403) 955-8971
Facsimile: (403) 955-2373
Telex: 037-41484
Contact: Lance Grant, Sales Manager

Lynx Tool Company Ltd., originally established in 1977, manufactures downhole drilling tools for the Canadian and U.S. oil industry. These tools include drill collars, heavy-wall drill pipe, reamers, stabilizers, combo tools, subs, and low valves. Lynx' products are available for worldwide markets.

M & M Manufacturing Ltd. Partnership

61 Estates Road
Dartmouth, Nova Scotia
Canada B2Y 4K3
Telephone: (902) 465-7675
Facsimile: (902) 465-4102
Contact: Besim Halefoglu, Vice President,
Commercial and Design

M & M Manufacturing Ltd. Partnership, founded in 1980, provides manufacturing services to the offshore sector of every continent. It provides customized high quality steel and alloy products to the industrial, offshore and defence sectors. The company also provides refit, upgrade and maintenance services. Its products include offshore structures, decks, modules and pellets, pressure vessels, high-pressure piping and furnaces.

MacDonald Engineering Group Ltd.

600, 1177 - 11th Avenue S.W.
Calgary, Alberta
Canada T2R 1K9
Telephone: (403) 228-3366
Facsimile: (403) 245-0219
Telex: 03-827769
AnswerBack: macdeng
Contact: Michael A.P. Diening, Vice
President, Business Development

MacDonald Engineering Group Ltd., established in 1965, originally specialized in reservoir engineering. Today, the company provides detailed engineering design services for all of the many disciplines in the oil and gas industry. It also operates a construction company in order to provide a complete turnkey package for clients. A full computer hardware and software design and implementation service, utilizing advanced CAD systems, is also provided. The company's services are available worldwide.

MacLaren Plansearch Limited

200, 5657 Spring Garden Road
Halifax, Nova Scotia
Canada B3J 3R4
Telephone: (902) 421-3200
Facsimile: (902) 425-4464
Telex: 019-22718
AnswerBack: lavalinhfx
Contact: S.G.P. Skey, General Manager

MacLaren Plansearch Limited provides oceanographic, meteorological, environmental studies, as well as operational and consulting services to industry and government. The combined skills of oceanographers, engineers, scientists, meteorologists, programmers and field technicians provide a range of services from basic research through field studies, data processing, numerical modelling and hindcasting studies, and offshore and coastal environmental support. Some of the numerous projects conducted by the company are oceanographic and meteorological data acquisitions, processing and analysis for several offshore operators on the East Coast, West Coast and Beaufort Sea; investigation of ice motion and wave generated ice conditions; development of wind and wave climatology and design criteria; wind/wave hindcast studies and site-specific forecasting; offshore software development and implementation; and environmental impact studies.

Maloney Steel Ltd.

8825 Shepard Road S.E.
Calgary, Alberta
Canada T2H 1X1
Telephone: (403) 279-5000
Facsimile: (403) 279-2068
Telex: 03-821153
AnswerBack: maloney cgy
Contact: Don Krusky, Vice President,
Business Development

Maloney Steel Ltd. offers a complete range of design and fabrication services for oil and gas production equipment for



worldwide markets. The company specializes in heaters, glycol dehydration units, separators, oil emulsion treaters, gas sweetening units, hydrocarbon recovery units, free water knockouts, coalescers, precipitators and production systems. The company has designed and manufactured some of the largest and most sophisticated oil and gas production and process equipment in the world, operating both onshore and offshore in every oil producing nation.

Mandarin Oilfield Services Ltd.

326, 510 - 5th Street S.W.

Calgary, Alberta

Canada T2P 3S2

Telephone: (403) 265-8987

Facsimile: (403) 265-6776

Telex: 063670059

Contact: Neil Marshall, Chairman of the Board

Mandarin Oilfield Services Ltd. has designed and developed its own Inflate Drillstem testing tools. The company can supply both conventional and Inflate Drillstem equipment, as well as drillstem testing services. Their Inflate System utilizes unique pump and release technology. The pump features radial piston action which is simple in design and very reliable. The release system operates on hydraulic action instead of mechanical, and has no moving parts that can fail—malfunction is virtually impossible. The system is being used in Canada and Asia.

Marshall Macklin Monaghan Limited

80 Commerce Valley Drive East

Thornhill, Ontario

Canada L3T 7N4

Telephone: (416) 882-1100

Facsimile: (416) 882-0055

Contact: C.W. Longden, Vice President, Corporate Development

The Surveying and Mapping Division of Marshall Macklin Monaghan Limited, in operation since 1952, provides the firm's full range of professional surveying and mapping services, including digital mapping and Geographic Information Systems. Its professional and technical staff of 150 includes registered land surveyors, professional engineers, survey technologists and technicians. The company's principal fields of activity are cadastral surveying, geodetic surveying, applied surveying, hydrographic surveying, computations and plotting services, digital mapping and photogrammetric services, geographic information systems, digital terrain modelling, and remote sensing applications.

Marystown Shipyard Limited

100 New Gower Street, Suite 200

St. John's, Newfoundland

Canada A1C 5J9

Telephone: (709) 726-1323

Facsimile: (709) 279-1408

Telex: 016-3140

AnswerBack: msl mary

Contact: Eric Patey, President

Marystown Shipyard Limited is located on the south coast of Newfoundland. The yard is situated at Marystown in Mortier Bay on Newfoundland's Burin Peninsula. The location is strategically close to Atlantic shipping lanes and Canada's east coast oil and gas fields. The deepwater port, one of the world's greatest natural harbours, is ice-free all year. The shipyard is considered to be one of the most experienced shipyards in Canada. The

yard has built numerous trawlers, anchor-handling supply vessels/tugs and diving support/supply vessels for Canadian and European customers.

The company operates an oil rig servicing base for the repair and service of semi-submersible rigs at dockside—equipped for the efficient fabrication, outfitting and erection of the sub-assemblies and assemblies for oil related offshore exploration and production systems. The facility is to be optimized around the requirements of mechanical outfitting of gravity based structures with secondary capability in module construction and sub-sea manifold and template construction. The peak employment level has been 700, supported by approximately 120 supervisory, technical and management staff. There are 1 100 tradesmen within the region and available to the company.

Master Flo Valve Inc.

4910 - 74th Avenue

Edmonton, Alberta

Canada T6B 2H6

Telephone: (403) 468-4433

Facsimile: (403) 469-9853

Telex: 037-41648

Contact: Richard Cove, Vice President, General Manager

Master Flo Valve Inc. is a manufacturer of chokes and valves. In-house engineering staff maintain a high level of quality control and new product development and design. It has a manufacturing facility in Scotland and representation in every continent. The company specializes in flow control and pigging operations. Its worldwide patented production choke is available in a 0.5 to 6 in. body and working pressures ranging to 10 000 psi. The control valve may be obtained in sizes ranging from 0.5 to 4 in. and working pressures ranging to 5 000 psi. Its Pig Ball Valve is available in by-pass and shut-off styles, and working pressures ranging to 1 500 psi.



Matt's Manufacturing Ltd.

P.O. Box 18, Site 4, R.R 5
Calgary, Alberta
Canada T2P 2G6
Telephone: (403) 279-9353
Facsimile: (403) 236-1535
Telex: 03-821795
AnswerBack: matt mfg cgy
Contact: Matt Plesa, President

Established in 1974, Matt's Manufacturing Ltd. is a custom design and manufacturing company which serves the domestic and international community. The company is a major manufacturer of oil field equipment and specializes in wireline logging perforation units. Its products include wireline skid units, vans, hydraulic draw works, self-contained lube vans, hydraulic presses, as well as the company's exclusive custom-designed machinery and equipment. The company also repairs surface and downhole equipment.

McDaniel & Associates Consultants Ltd.

1200, 800 - 6th Avenue S.W.
Calgary, Alberta
Canada T2P 3G3
Telephone: (403) 262-5506
Facsimile: (403) 233-2744
Contact: W.C. Seth, Senior Vice President

McDaniel & Associates Consultants Ltd., founded in 1955, provides a wide range of services to the oil and gas industry and, in particular, those aspects relating to reservoir engineering and economic evaluations of petroleum properties. The firm has consulted in all phases of oil and gas reservoir engineering and related economic evaluations and has been retained by both private and public companies, financial institutions and government organizations. Representatives of the firm provide 'expert witness' services in matters related to the oil and gas industry in Canada and the U.S.

McElhanney Geosurveys Ltd.

100 - 780 Beatty Street
Vancouver, British Columbia
Canada V6B 2M1
Telephone: (604) 683-8521
Facsimile: (604) 683-4350
Telex: 04-51474
Contact: Donald B. Thomson, Vice
President

McElhanney Geosurveys Ltd. provides, on a worldwide basis, marine and geodetic surveys, mapping, and geographic information services. The company operates from six offices across Canada and from permanent facilities in Singapore and Malaysia. Employing more than 125 skilled specialists in the fields of surveying, engineering, photogrammetry, computer information and earth sciences, the company has successfully completed projects in more than 65 countries.

Mega Engineering Ltd.

625 - 4th Avenue S.W.
Calgary, Alberta
Canada T2P 0K2
Telephone: (403) 263-0894
Contact: Ralph J. Russell, President

Mega Engineering Ltd. offers expertise in the area of planning, designing, and on-site engineering and geological supervision of oil and gas well drilling and completion operations. It has been actively involved in many Canadian projects, as well as several international petroleum developments. The company has provided on-site construction, drilling, completion and geological supervision for most of the major operators and for many of the medium-sized and junior companies. It has also supplied in-house consulting engineering and geological services for several companies. Internationally, the company has been active in engineering and geological supervision and on-site management for drilling operations in Europe, South America, Asia, the Middle East and Northern Africa.

Metro International Trading Company

Box 526, Station W
Toronto, Ontario
Canada M6M 5C2
Telephone: (416) 652-1117
Facsimile: (416) 656-4910
Contact: Moe Irshad, Director,
International Operations

Metro International Trading Company is an international trading house, importer, exporter, buyer and seller of a wide range of goods and services in Canada and worldwide. In business for more than ten years, the company is well known to its worldwide customers for supplying top quality, Canadian gas and oil field equipment and services.

MIL Group Inc.

1010, rue Sherbrooke West
Montreal, Quebec
Canada H3A 2R7
Telephone: (514) 842-7911
Facsimile: (514) 842-9183
Contact: John McStay, Manager

The MIL Group Inc. is comprised of a group of companies and major operating divisions. The group's activities now include the design and manufacture of a wide range of complex, high quality equipment, including offshore structures, ships, hydro-electric turbines and generators, nuclear reactor calandrias, mechanical handling systems and specialist fabrications for the energy, petrochemical, shipbuilding and defence industries. MIL can fabricate a wide variety of structures, including jackets, module support frames, floating production systems, shuttle tankers, jack-up and semi-sub mobile drilling platforms, and accommodation units. Thirteen offshore drilling platforms have been completed for various parts of the world. The company is now ready to manufacture the new generation of drilling and production platforms suitable for operation in any hostile environmental



waters. MIL also offers a wide range of services to the offshore industry, including hookup and commissioning, in situ repair and maintenance of platforms, engineering services, and inspection and testing.

Milton Roy Industries Ltd.

300 Milroy Drive
Peterborough, Ontario
Canada K9J 7Y8
Telephone: (705) 743-6550
Facsimile: (705) 743-5831
Contact: William Killoch, Vice President,
Sales and Marketing

Milton Roy Industries Ltd.'s modern 2 000 m² facility manufactures chemical metering pumps to customers' specifications. The company's products include a complete line of mechanically driven and solenoid operated chemical metering pumps, electronic actuators for control valves and regulation of chemical metering pumps, and packaged chemical injection systems. Established in 1966, the company serves the resource industries in the U.S., Asia and South America.

Mitrade Export Inc.

1, Place Ville-Marie, bureau 1933
Montreal, Quebec
Canada H3B 2C3
Telephone: (514) 393-9596
Facsimile: (514) 393-9809
Telex: 055-61926
Contact: Norman Brunelle, Export Sales
Manager

Mitrade Export Inc. facilitates the international procurement process. The company offers a source for most products in the oil and gas industry—delivery, scheduling, technical support and shipping details. Mitrade has worldwide experience; projects have included the supply of equipment for new factories and petrochemical plants.

Monenco Limited

400, 801 - 6th Avenue S.W.
Calgary, Alberta
Canada TWP 3W3
Telephone: (403) 298-4170
Facsimile: (403) 298-4125
Telex: 038-22636
AnswerBack: mon cgy
Contact: Robert J. Clark, Vice President,
Oil and Gas Division

Serving private and public companies, governments and international lending agencies in more than 70 countries, Monenco Limited is comprised of 27 subsidiaries and associated companies in Canada, the U.S. and abroad. Monenco is engaged in the power, oil and gas, mining, industrial and environmental fields. It has specific expertise in the provision of engineering, procurement and construction management (EPCM) services to the oil, gas, petrochemical and process industries. Its computer-assisted project management system, coupled with its quality management program, has contributed significantly to Monenco's international reputation.

Morris International Trading Ltd.

1520 Columbia Street
North Vancouver, British Columbia
Canada V7J 1A4
Telephone: (604) 986-2189
Facsimile: (604) 986-6978
Contact: David E. Morris, President

Morris International Trading Ltd., in business for 13 years, markets the oil pollution control equipment which is manufactured by Morris Industries Ltd. The product line includes a range of oil skimmers and an inshore containment boom. Currently being developed is a work boat which can serve as a skimmer and/or boom deployment vessel, as well as a fixed installation oil recovery unit. Morris equipment is in use in Canada, Europe, South America and the U.S.

Nabors Drilling Limited

1100, 505 - 3rd Street S.W.
Calgary, Alberta
Canada T2P 3E6
Telephone: (403) 263-6610
Facsimile: (403) 264-7390
Telex: 038-25629
AnswerBack: naborsintl cgy
Contact: T.L. Doyle, President

Nabors Drilling Limited was formed in 1952 and currently owns and operates 23 land drilling rigs in Western Canada—depth capacities ranging from 1 500 to 6 000 m. Nabors has developed an industry reputation for the construction and operation of safe and efficient deep hole drilling rigs. Its primary areas of expertise are design and construction of custom drilling rigs which feature mobility, cold weather technology, efficiency and safety; contract drilling services, specializing in deep, sour gas technology; training services for drilling operations, including rig crews, safety, well control, preventative maintenance; and research and development in the areas of rig automation, top drives and slant drilling. Nabors has exported several highly mobile deep drilling and service rigs to Alaska's North Slope. Its subsidiary company currently operates drilling rigs and offshore platforms in Yemen, Syria, Japan and the U.S.



Nardei Fabricators Ltd.

P.O. Box 14, Site 1, R.R.5
Calgary, Alberta
Canada T2P 2G6
Telephone: (403) 279-3301
Facsimile: (403) 279-5871
Contact: B.K. Kaushik, Sales Manager

Nardei Fabricators Ltd. is a contracting organization, specializing in the supply (engineering, design and fabrication) of pressure vessels, boiler external piping, process piping systems, skids, packaged units and auxiliary services for the natural gas processing, oil refining and petrochemical industries.

National-Oilwell Canada Ltd.

1010, 800 - 6th Avenue S.W.
Calgary, Alberta
Canada T2P 3G3
Telephone: (403) 262-9501
Facsimile: (403) 262-9166
Telex: 038-22693
Contact: K.A. Neveu, Manager,
Manufactured Products

National-Oilwell Canada Ltd. is a reliable source for innovative oil field equipment and services. It manufactures and distributes a broad range of drilling and production machinery, repair parts and operating supplies. The company and its staff of 320 direct their capabilities to the petroleum industry and export to most world markets.

Newco Safety Tel Inc.

1921 - 10th Avenue S.W.
Calgary, Alberta
Canada T3C 0K3
Telephone: (403) 228-3605
Facsimile: (403) 229-9321
Contact: Dean Bochulak, Marketing
Engineer

Newco Safety Tel Inc. was established in 1986 to design and manufacture specialty communications equipment for use in harsh environments and special applications—explosive atmospheres, exposure to weather, high humidity and chemical vapours. The company's primary product is an industrial, touch-tone, explosion proof telephone. It has been approved by the Canadian Standards Association and is listed by Underwriter's Laboratories (U.S.A.). It is the only telephone unit (currently available with these attributes) that can be connected directly into the public telephone network. This is complemented by Newco's Rig Intercom system which is used on land-based/offshore oil drilling rigs.

Nortech Surveys (Canada) Inc.

319 - 2nd Avenue S.W.
Calgary, Alberta
Canada T2P 0C5
Telephone: (403) 262-0800
Facsimile: (403) 262-0810
Contact: Brian Cutting, Senior Manager,
Calgary Division

Nortech Surveys (Canada) Inc. is a surveying and positioning company, formed in 1983. It operates worldwide with offices in Canada, the U.S., and the Sultanate of Oman. The company offers a complete range of services, including offshore surveys, GPS static and dynamic positioning, inertial surveys, and specialized integrated systems—the Airborne Laser Terrain Profiling System (ALTPS) and Digital Video Geographic System. Its personnel are among the most qualified in the world for land, sea and

airborne positioning services. Nortech's strength lies in software and hardware development related to navigation and position determinations on the earth's surface. Nortech is a pioneer in the area of inertial guidance systems, satellite doppler navigation techniques, and GPS positioning techniques.

North Atlantic Machinery (Alta) Ltd.

3820 - 93rd Street
Edmonton, Alberta
Canada T6E 5K6
Telephone: (403) 450-4961
Facsimile: (403) 450-4709
Contact: Don Ruckman, President

North Atlantic Machinery (Alta) Ltd. is an international leader in the design, engineering, manufacture and supply of downhole drilling equipment. The company has established service facilities for a full line of bit drive directional tools, jars, shock tools, roller reamers and stabilizers, as well as other specialized tools. The company's machinery plants in North America currently occupy in excess of 3 000 m² and are equipped with modern equipment to ensure quality product. In addition to CNC lathes, mills, hollow spindle lathes, drills, shapers, slotters, etc, the company is able to provide a line of heavy duty grinding and honing equipment.

Norward Energy Services Ltd.

703, 1015 - 4th Street S.W.
Calgary, Alberta
Canada T2R 1J4
Telephone: (403) 290-0264
Facsimile: (403) 265-6142
Telex: 03-821172
Contact: Terry Brown, Manager, Technical
Services

Norward Energy Services Ltd. provides production testing services for onshore and offshore oil and gas wells. Norward is a total service company and has branches in



the U.S. It specializes in testing wells that contain H₂S gas. The company's surface equipment is engineered and built in-house to meet the rigid specifications of the major oil companies. Don Buck Fabrication Ltd. is a subsidiary company engaged in pressure piping, pressure vessel manufacture and well testing unit manufacture. The two companies design and build production testing equipment for export. This equipment is currently used in China, Pakistan, Australia, New Zealand and the state of Alaska in the U.S.

Norwest Engineering Ltd.

902, 1015 - 4th Street S.W.
Calgary, Alberta
Canada T2R 1J4
Telephone: (403) 290-1648
Facsimile: (403) 261-5048
Telex: 03821-820
AnswerBack: *execucare cgy*
Contact: J. David Smith, President

Norwest Engineering Ltd. is a professional engineering firm that specializes in petroleum consulting services. The company maintains a staff of experienced professional engineers and field supervisors to assist the industry in activities ranging from multiwell development projects to single well exploration programs.

Novacorp International Consulting Inc.

P.O. Box 2535, Station M
Calgary, Alberta
Canada T2P 2N6
Telephone: (403) 261-5200
Facsimile: (403) 290-6090
Telex: 038-21503
AnswerBack: *nova cgy*
Contact: C. Dale Richards, Senior Vice President

Novacorp International Consulting Inc. provides engineering and operating expertise in pipeline transmission systems

and petrochemicals to clients worldwide. It is a subsidiary of NOVA Corporation which builds its businesses principally on pipelining and the manufacture of materials processed from hydrocarbons. The company has successfully participated in the development and implementation of numerous pipeline projects worldwide. Project services typically involve feasibility studies, design engineering, project and construction management, operation and maintenance assistance, staff training programs and technology transfer. Novacorp's Pipeline Software Group provides software products for the safe and efficient operation of pipelines. This includes software for leak detection, pipeline modelling and pipeline operations training. Novacorp also offers the knowledge and capabilities of a team of specialists who deal with the design, application and trouble-free operation of specialized products, such as mechanical dry seals.

Nowaco Well Service Ltd.

1300, 801 - 6th Avenue S.W.
Calgary, Alberta
Canada T2P 4E1
Telephone: (403) 261-2990
Facsimile: (403) 264-7489
Telex: 03-825617
Contact: Stan Baldwin, Manager,
International Sales

Nowaco Well Service Ltd. provides, on an international basis, specialized equipment and technology to owners and operators of oil and gas wells for the cementing and stimulation (including acidizing and fracturing) of wells and in related applications involving nitrogen, carbon dioxide, endless tubing and leak detection. The company also designs and fabricates specialized equipment for its own use worldwide and for sale to third parties. The company provides training to a variety of customers, and conducts research and development activities.

NRL Ltd.

P.O. Box 307, 2104 - 7th Street
Nisku, Alberta
Canada T0C 2G0
Telephone: (403) 955-3317
Facsimile: (403) 955-2545
Telex: 037-2966
Contact: Grady Long, General Manager

Formerly known as Northern Rig Lites Ltd., NRL Ltd. was formed in 1985 through a purchase of the original company. Previous designs and manufacturing methods which have enhanced marketing of the products worldwide for the past 25 years, continue to be used today. Reliability under the most severe of conditions have proven the products' ability to be used in all drilling environments. The company manufactures hazardous and non-hazardous area fluorescent and H.I.D. lighting fixtures; marine and shipboard fluorescent and incandescent light fixtures; quartz halogen, H.I.D., and fluorescent light fixtures; portable lighting for hazardous and non-hazardous areas; and emergency lighting for hazardous and non-hazardous areas. These are exported worldwide.

Nutron Manufacturing Ltd.

4318 - 76th Avenue
Edmonton, Alberta
Canada T6B 2H8
Telephone: (403) 468-2732
Facsimile: (403) 466-7741
Contact: Denis Gaulin, Marketing Manager

Nutron Manufacturing Ltd. is an integrated design, engineering and manufacturing company. It manufactures the *Nutron* ball valves and chokes. Ball valves range in size from 0.25 to 4 in. and up to 6 000 psi; chokes from 1 to 3 in. and up to 6 000 psi. These products are designed and manufactured for sweet, sour and low temperature service. 316-stainless is also used for other critical services. Their primary market is the upstream petroleum industry in Canada and the U.S.



O'Connor Tanks Limited

15 Bermondsey Road
Toronto, Ontario
Canada M4B 1Z4
Telephone: (416) 751-1140
Facsimile: (416) 751-7431
Contact: D.R. Malcolm, Sales Manager

O'Connor Tanks Limited has a staff of 100 and is a custom steel fabricator. The company offers a full range of support services—design, painting, internal lining, insulation, piping, transportation and installation. Some major products routinely fabricated include tanks, pressure vessels, hoppers and bins. The company serves numerous world markets.

Opsco Industries Ltd.

2601 Centre Avenue East
Calgary, Alberta
Canada T2A 2L1
Telephone: (403) 272-2206
Facsimile: (403) 273-0377
Contact: Brian S. Langton, Marketing and Sales Manager

Established in 1965, Opsco Industries Ltd. and its 120 employees provide wireline (pressure surveys), well testing and evaluation services, as well as instrumentation systems and services. It also manufactures oil field production equipment, including gas/liquid separators, line heaters, dehydrators (glycol) and packaged process equipment—meter stations, production satellites, water treatment and injection packages.

Pacific Truck & Trailer Ltd.

935 West 3rd Street
North Vancouver, British Columbia
Canada V7P 1E5
Telephone: (604) 985-7121
Facsimile: (604) 985-5893
Telex: 04352529
AnswerBack: pactruck ver
Contact: George Boulet, Manager, Sales Engineering/Product Development

Pacific Truck and Trailer Ltd. is a custom builder of specialized on/off highway trucks and tractors. In 1988, the company won the British Columbia Export Award for achievement in international marketing and outstanding export performance. The company was founded in 1947 and manufactures heavy duty trucks to 80 000 kg GVW, and 270 000 kg GCW for use in the oil field, as well as other industries. The company manufactures four basic models; two of these are readily adapted to meet the vocational requirements of the oil field. They can be set up as a flatbed with a disappearing fifth wheel in order to haul a wide variety of heavy oil field equipment.

Pandit International

263 MacLaren Street, Suite 1208
Ottawa, Ontario
Canada K2P 0M1
Telephone: (613) 232-8497
Facsimile: (613) 232-8497
Telex: 053-4741
AnswerBack: superior ori
Contact: Raj Kumar, Vice President, International Marketing

Pandit International was founded to design and market products for the oil and gas industry and to make investments in the form of joint ventures in oil and gas exploration and project development. It is capable of handling project development implementation, financing and marketing. Its services include the provision of seismic and gravity surveys; geomagnetic surveys for oil and gas exploration; seismic, gravity

and geomagnetic data processing and 3D seismic data processing. It provides well logging systems, and inflatable packers and testing tools.

Partec Lavalin Inc.

909 - 5th Avenue S.W.
Calgary, Alberta
Canada T2P 3G5
Telephone: (403) 294-2100
Facsimile: (403) 237-8365
Telex: 03-827910
AnswerBack: lavalin cgy
Contact: John R. Wood, Manager, Sales and Marketing

Partec Lavalin Inc. has more than 340 engineers, technicians, designers, draftspersons, and support personnel. The company's expertise encompasses all areas relating to the production, transportation, processing, upgrading and delivery of conventional energy resources, chemicals, petrochemicals and synthetic fuels. The technology base covers all aspects of project management, engineering, procurement and construction from wellhead to end user. Its professionals have completed major domestic and international projects, including processing plants, sulphur forming plants, gathering systems, pipelines and tank farms in Canada, the U.S.S.R., Africa, Asia and the Middle East.

Pason Well Services Ltd.

5, 6120 - 11th Street S.E.
Calgary, Alberta
Canada T2H 2L7
Telephone: (403) 255-3158
Facsimile: (403) 253-9681
Contact: Jim Hill, President

Pason Well Services Ltd. has been a custom manufacturer of control and monitoring systems for drilling rigs since 1978. The company's Pit Volume Totalizer system is used to detect the beginning of a gas kick while drilling. This detection is achieved by monitoring the mud levels in



the mud tanks and the return flow rate from the wellbore. Pason also builds a remote drilling choke system which is used to release gas from the wellbore under controlled conditions. These products are ideal for deep land-based rigs in areas where gas zones are expected, as well as for harsh, isolated locations.

Penetrators Canada Inc.

200, 6712 Fisher Street S.E.
Calgary, Alberta
Canada T2H 2A7
Telephone: (403) 253-3233
Facsimile: (403) 252-6700
Contact: Derek C. Martin, Executive Vice President

Penetrators Canada Inc. was established in 1990 to market services and equipment which utilize the Lance System Penetrator Tool. The Lance System Penetrator technology is new and unique and has applications in all oil and gas producing regions of the world. The tool is a hydraulically actuated, high-pressure jet drill that consists primarily of a cutting nozzle and flexible lance. It is capable of extending three metres outward from the wellbore into formation rock—substantially exceeding the average penetration currently achieved by other penetrating devices. The tool is non-damaging, non-explosive, and uses clean, compatible, non-contaminating fluids as the cutting agent for deep formation penetration. The company supplies the downhole tools, high-pressure surface pumping equipment and high-pressure tubing, as well as the advanced technology and expertise required to put the penetrator system to work for customers.

Petrocraft Products Ltd.

2410A - 2nd Avenue S.E.
Calgary, Alberta
Canada T2E 6J9
Telephone: (403) 272-9590
Facsimile: (403) 248-7999
Telex: 03 821172
Contact: H.R. Morris, President

Formed in 1963, Petrocraft Products Ltd. is one of the largest suppliers of geological equipment and services in Canada and holds over 10 patents. One of the company's products is the *Sample Boy Continuous Cuttings Sampler*. This unique semi-automatic device is designed to sieve, wash and collect representative well cuttings in predetermined quantities; provide a gentle, thorough washing action; retain fines, even when drilling carbonates or sandstones; exclude most cavings; and resist corrosion—stainless steel construction. The wellsite geologist and/or mud-logger is the company's primary client. The company exports to the U.S., Mexico and Europe.

Phillips Cables Limited

550 King Street West
Brockville, Ontario
Canada K6V 5W4
Telephone: (613) 345-5666
Facsimile: (613) 345-1365
Telex: 066-36512
AnswerBack: philelec
Contact: T.P. Bohm, Vice President,
International Sales

Phillips Cables Limited has supplied pump cable for ESP systems for more than 20 years. Its laboratory conducts research and development for submersible cables and its Pyrotemax Division produce mineral insulated, high temperature, heat tracing cables and systems. Different types of ESP Cables are produced for various temperatures and feature round and flat designs. Heat tracing systems, controls, and engineering services are also available. The company's clients include

petrochemical and oil producers worldwide.

Pillar Oilfield Projects Ltd.

502, 550 - 11th Avenue S.W.
Calgary, Alberta
Canada T2R 1M7
Telephone: (403) 266-7070
Facsimile: (403) 233-7802
Contact: Robert J. Unrau, General Manager

Incorporated in 1983, Pillar Oilfield Projects Ltd. provides construction and fabrication services to the oil industry, including field installation of gas compressors, gas plants, oil batteries, water disposal plants and heavy oil facilities; shop fabrication of production skids, satellite and header facilities.

Plains Perforating Ltd.

860, 400 - 5th Avenue S.W.
Calgary, Alberta
Canada T2P 0L6
Telephone: (403) 262-6306
Facsimile: (403) 266-3960
Contact: Tom Kusumoto, President

Plains Perforating Ltd., established in 1972, is a perforating and logging company. The company provides services to more than 100 oil and gas clients. All of its logging equipment is fully computerized and can service from shallow gas wells to deep wells.



Plainsman Manufacturing Ltd.

5928 - 99th Street
Edmonton, Alberta
Canada T6E 3N9
Telephone: (403) 435-4807
Facsimile: (403) 435-4546
Telex: 037-2966
Contact: Lee Makelki, Secretary Treasurer

Plainsman Manufacturing Ltd. manufactures a complete line of chemical pumps, check valves, orifice plates, insulators, and plastic and steel pumps and foam pigs for the Canadian and U.S. markets. The company's engineers also custom build to clients' requirements.

Positive Action Tool Western Limited

1401, 510 - 5th Street S.W.
Calgary, Alberta
Canada T2P 3S2
Telephone: (403) 237-6441
Facsimile: (403) 237-6445
Contact: Hugh M. King, International Sales Manager

Positive Action Tool Western Limited, established in 1976, is a manufacturer and distributor of specialized equipment designed to help solve problems which often occur in artificial lift (pumping) oil wells. The company manufactures and installs Sucker Rod Scraper-Guides for paraffin control and rod centralization; one model is designed to reduce or eliminate the necessity of hot oiling or chemical injection as it prevents paraffin build-up on rods and tubing simultaneously. Other products include the AGM two-position, wellhead steam control device (blowout preventer); the HTD high temperature, dual packed stuffing box for heavy oil production; Rod Rotators—installed on plunger ends of bottom hole pump to reduce plunger seizing; field installable Lotus Rod Guides—to centralize sucker rod strings in moderately crooked wells; Posi-Align stuffing boxes—for wellhead polished rod

mis-alignments; and oil field improvement Wheeled Rod Guide Couplings—to centralize sucker rod strings in severely deviated oil wells.

Predictive Maintenance Corporation

400, sauve West, bureau 101
Montreal, Quebec
Canada H3L 1Z8
Telephone: (514) 383-6330
Facsimile: (514) 383-5631
Contact: Marvin Ostin, President

Predictive Maintenance Corporation is an oil analysis laboratory and research facility. Its mission is to provide accurate and reliable machine and lubricant diagnostics to industry in order to predict and prevent costly repairs and production losses. The company employs artificial intelligence to produce consistent, in-depth reporting on the health of machinery and quality of lubricants. It also uses laboratory methods, such as total metals spectroscopy (TMS) to accurately measure both large (15 to 75 microns) and small particle wear (less than 15 microns). (Conventional emission spectroscopy is limited to the detection of small particles.) An accurate and fast method of detecting and measuring large particles is important in the monitoring of machines that contain gears and rolling element bearings (90 percent of all machines). The company also markets its Artificially Intelligent Laboratory Information Management System (AI/LIMS).

Premetalco - Inc. Exchanger Industries Division

5505 - 52nd Street S.E.
Calgary, Alberta
Canada T2C 2W8
Telephone: (403) 236-0166
Facsimile: (403) 279-8242
Contact: Ian Wright, Sales Manager

Exchanger Industries, a division of Premetalco Inc., was founded in 1961 to design and manufacture heat transfer equipment in support of the oil and gas and petrochemical industries. It is now one of the leading heat exchanger manufacturing companies in Canada. The products engineered and manufactured by the company include shell and tube heat exchangers, air-cooled heat exchangers, waste heat boilers, and oil well pumping units.

Proficient Oil Tools Ltd.

7131C - 6th Street S.E.
Calgary, Alberta
Canada T2H 2M8
Telephone: (403) 255-5544
Facsimile: (403) 255-4105
Telex: 03821671
AnswerBack: proficient cgy
Contact: Les Szadovszki, President

Proficient Oil Tools Ltd. was established in 1986 to specialize in downhole completion equipment for oil and gas completions in Canada and international markets. The company offers advanced, proven product lines and high standards of quality control measures. Its equipment meets the needs of varied well conditions, including H₂S/CO₂ service and extremely corrosive service. Its product line includes tubing mounted completion equipment— nipples, sliding sleeves, blast joints, shut-off valves; flow control accessories—plugs, chokes separation sleeves, check valves, instrument hangers, collar stops; shifting, running, equalizing and pulling accessories—shifting tools, running tools, shanks, guides, prongs and



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probes; wireline tools—rope sockets, stems, hydraulic jars, blind boxes, gauge rings; and wireline equipment packages and production testing equipment packages.

Propak Systems Ltd.

505 East Lake Boulevard
Airdrie, Alberta
Canada T4B 2C3

Telephone: (403) 948-2001
Facsimile: (403) 943-5024
Telex: 03-827716

AnswerBack: propakyst air
Contact: P.J. Dewey, Vice President,
Technical Sales

Propak Systems Ltd. has, since 1976, provided in-house services to the energy processing industry in engineering/process technology development, shop fabrication/modularization, and field construction, commissioning and start up. The company provides a total turnkey approach on projects valued to \$10 million. It has constructed more than 500 processing facilities ranging from 0.2 MMSCFD to 90 MMSCFD of natural gas. Propak's engineering services include civil, mechanical, electrical and process engineering on an individual basis or in combination. Propak has demonstrated superior capability in areas of mixed refrigeration to cryogenic temperatures, selective absorption amine systems, as well as other areas of general gas processing. Propak's capabilities also include plan process simulation, productivity enhancement studies and performance tests.

Prudential Steel Ltd.

P.O. Box 1510
Calgary, Alberta
Canada T2P 2L6
Telephone: (403) 263-7820
Facsimile: (403) 261-0936
Contact: Byron Hussey, Manager,
International Sales

Prudential Steel Ltd. is the largest pipe manufacturer in Canada. Its products for the oil and gas industry include E.R.W. and seamless oil tubular goods, line pipes, hollow structural sections, and mechanical tube. Its seamless tubulars exceed expectations for concentricity, wall integrity, metallurgy, dimensional accuracy and surface quality.

Pullmaster Winch Corporation

8247 - 130th Street
Surrey, British Columbia
Canada V3W 7X4
Telephone: (604) 594-4444
Facsimile: (604) 591-7332
Contact: Heinz K. Schroer, Director of
Marketing

The Pullmaster Winch Corporation is a worldwide supplier of precision gears and machine components. After the introduction of the first *Pullmaster Winch*, the company became a leader in the development of planetary hydraulic winches and drives; these feature automatic disc brakes with static and dynamic brake function. Its equipment includes planetary hydraulic winches in a range of capacities from 2 000 to 5 000 lb. line pull, and planetary hydraulic drives with output torques of 5 000 lbs./in. and 135 925 lbs./in.

Pulsesearch Consolidated Technology Ltd.

700, 10201 Southport Road S.W.
Calgary, Alberta
Canada T2W 4X9
Telephone: (403) 259-8560
Facsimile: (403) 255-6637
Contact: John R. Adams, President

Pulsesearch Consolidated Technology Ltd. was founded in 1987 as an advanced technology engineering, survey, software and systems design enterprise. The experience of the principals includes structural engineering, system development and integration and geodetic technologies. The in-house technical expertise and operational experience allow the company to respond to numerous demanding and technically challenging tasks. The company provides services in systems development and integration—engineering systems design, navigation system integration, software and hardware design; geodetic surveys—precise engineering surveys, land/marine survey data acquisition; management consulting—contract management consulting; monitoring—pipeline geometry piggging, civil engineering structures, mines, dams; and structural analysis—engineering system analysis, pipeline stress analysis, civil structures structural analysis, limit state analysis, reliability analysis, predictive and corrective maintenance planning analysis.



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Pulsonic Geophysical Ltd.

700, 10201 Southport Road S.W.
Calgary, Alberta
Canada T2W 4X9
Telephone: (403) 255-2820
Facsimile: (403) 255-6637
Contact: Doug Bogstie, Vice President,
Marketing

Pulsonic Geophysical Ltd. is one of the largest seismic data processing contractors in Canada. Established in 1981, it has become an industry leader in geophysical research and the introduction of new technology. It has provided its services to clients worldwide. Proprietary software developed by the affiliate company, Pulsonic Technology Corp. (PTC) runs on a large networked computing facility which includes supercomputing hardware. PGL is capable of processing any type of seismic data, including land, marine, 2D and 3D. The company specializes in producing very high quality results by utilizing its vast array of advanced programs. Superior 3D products have made Pulsonic one of the foremost 3D processors in North America. Advanced techniques developed for AVO processing have yielded significant exploration success for numerous clients.

Qualitas International Inc.

2828 Signal Hill Heights S.W.
Calgary, Alberta
Canada T3H 2B5
Telephone: (403) 242-8630
Facsimile: (403) 240-3945
Contact: Ameet Rao, President

Qualitas International Inc. is an international trading and procurement service company. Its personnel have a unique combination of technical and commercial experience in the execution of large international projects. The company's areas of specialization include oil and gas production and drilling equipment, solar and geothermal energy utilization, and welding and materials

testing equipment. All commercial transactions are supported by technical professionals to guarantee the highest levels of quality and reliability to its customers. Qualitas can handle all aspects of an international export contract.

Quality Fabricating & Supply Limited

3751 - 76th Avenue
Edmonton, Alberta
Canada T6B 2S8
Telephone: (403) 468-6762
Facsimile: (403) 468-0995
Contact: Gino Alessandrini, President

Quality Fabricating & Supply Limited is a manufacturer of a variety of structural steel products, fabricated to customer specifications. For the oil and gas industry, the company manufactures drilling rigs, including support modules—generator assemblies and buildings, dog houses, catwalk ramp assemblies, complete mud assemblies, utility buildings, and miscellaneous rig components. For the petroleum production and processing industry, the company manufactures modular pipe bridge sections, complete with pipe transmission towers and hardware, steel buildings, equipment supports and skids, pump jack structures, heat exchangers, and miscellaneous structural steel.

Quantel Engineering (1981) Ltd.

700, 777 - 8th Avenue S.W.
Calgary, Alberta
Canada T2P 3R5
Telephone: (403) 269-9833
Facsimile: (403) 269-9845
Telex: 038-27954
AnswerBack: quantel cgy
Contact: Said Arrata, President

Quantel Engineering (1981) Ltd., established in 1975, offers a comprehensive range of services—from concept development through to plant

start up. It provides feasibility and economic studies; process configuration studies/development; process/mechanical designs; detailed engineering and design drafting; procurement; project management; construction management and construction; and commissioning and plant start up. In 1989, the company was responsible for the execution of \$110 million in capital projects. Its capabilities encompass heavy and conventional oil technology, gas sweetening processes, pipelines, gathering systems, compressor stations, pumping systems, enhanced oil recovery systems, offshore topside facilities, control systems, supervisory control and data acquisition systems, and refinery modifications.

Quebec Tools Corporation

55, Benjamin-Hudon
St-Laurent, Quebec
Canada H4N 1H7
Telephone: (514) 331-7720
Facsimile: (514) 331-0388
Contact: Donald Chartrand, Procurement
Manager

Quebec Tools Corporation manufactures custom built machinery for the chemical and petroleum industry. Its 8 100 m² modern plant is equipped with the necessary machine tools to permit complete fabrication, machining and assembly of components. Equipment manufactured by the company includes pressure vessels, drilling rig components, platforms, pump base frames, conveyors, rolls, and hydraulic turbine parts.



Quinn Testers Ltd.

405, 1040 - 7th Avenue S.W.
Calgary, Alberta
Canada T2P 3G9
Telephone: (403) 290-1704
Facsimile: (403) 266-1962
Contact: Pat J. Quinn, President

Quinn Testers Ltd. is a major supplier of drill stem testing services. It also designs and manufactures testing tools. The company conducts education courses in expert drill stem analysis and drill stem testing.

Raffin Electric Co. Ltd.

5539 - 1st Street S.E.
Calgary, Alberta
Canada T2H 1H9
Telephone: (403) 252-7551
Contact: James Duffy, Controller

For more than 30 years, Raffin Electric Co. Ltd. has been designing and building solutions for the special electrical requirements of numerous industries, including petrochemical. The company's controls, switchgear and retrofits have consistently provided high quality service and flexibility. Raffin's equipment has been exported to the U.S. and Asia.

Ramsay Machine Works Ltd.

1630 Store Street
Victoria, British Columbia
Canada V8W 1V3
Telephone: (604) 384-5314
Facsimile: (604) 389-0504
Contact: Gregory H.P. Ramsay, President

Ramsay Machine Works Ltd., established in 1903, has serviced and produced manufactured items for the oil and gas industry for more than three decades. The company produces custom steel and stainless steel fabrications, and machined components for clients in Canada, the U.S. and Western Europe.

Rayonics Scientific Inc.

473A Windmill Road
Dartmouth, Nova Scotia
Canada B3B 1B2
Telephone: (902) 468-3344
Facsimile: (902) 468-1203
Contact: Kerry Weaver

Rayonics Scientific Inc. sells and services a wide range of laboratory and analytical equipment and a complete line of test and measurement instrumentation to clients worldwide. Services are provided in overhaul, repair and calibration of electrical, electronic, mechanical, physical properties, nuclear medical, optical, and quality control test and measuring instrumentation. Its products include pressure gauges, compressor filters and dryers, laboratory analytical equipment (oil analysis, etc.), test and measuring instrumentation, communication test equipment, spectrofluorimeters and gas chromatographs.

Rebound Rig International Ltd.

1165A - 44th Avenue S.E.
Calgary, Alberta
Canada T2G 4X4
Telephone: (403) 287-0176
Facsimile: (403) 243-2061
Telex: 03-825512
AnswerBack: rebound cgy
Contact: L.E. Tomlin, Vice President,
Marketing

Since 1973, Rebound Rig International Ltd. has been a leader in the manufacture and supply of coiled tubing units with large compressors for shallow hole clean outs. Each of the eight different coiled tubing models, which range from shallow to intermediate to deep wall applications, can be custom designed and manufactured to meet customers' needs. Ongoing research and development has produced the new RT-SERIES injector heads which lead the industry in pulling strength. With almost 100 Rebound coiled tubing units sold throughout the world, Rebound offers a complete spare parts back-up and infrastructure support. A complete line of accessories and service equipment is also available.

Reflange (Canada) Inc.

Old Onondaga Road, R.R.1
Brantford, Ontario
Canada B3T 5L4
Telephone: (519) 759-5672
Facsimile: (519) 759-4495
Contact: David M. Dewar, President

Reflange (Canada) Inc. manufactures a line of severe service, pipe connectors. The line of connectors consists of R-Con, G-Con and E-Con models. The R-Con and G-Con are hub-type connectors and are fully interchangeable with Grayloc connectors. The E-Con connector is a modified flange fitting which may be retrofitted to existing field connections or used for original design. These flanges reduce the cost of massive flange forgings.



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bolts and commonly used gaskets through the use of a metal-to-metal, pressure energized seal. The *Refrange connection* is commonly used, both nationally and internationally for high-pressure and temperature applications for petrochemical production, power plants, and in petroleum production and refining, offshore oil and gas platforms and extremely critical extraction projects.

Rice Engineering & Operating Ltd.

8505 Argyll Road
Edmonton, Alberta
Canada T6C 4B2
Telephone: (403) 469-1356
Facsimile: (403) 469-2587
Contact: E. Dorman, Sales Manager

Rice Engineering & Operating Ltd., established in 1956, manufactures the *Rice Long Path Insulating Nipple*. The patented device interrupts the flow of stray electrical currents along steel pipelines. It requires no field assembly and its sturdy construction allows for permanent installation in the piping system.

Riley's Datashare International Ltd.

1223 - 31st Avenue N.E.
Calgary, Alberta
Canada T2E 7W1
Telephone: (403) 291-3370
Facsimile: (403) 291-3894
Contact: D.E. Plewes, President and Chief Executive Officer

Riley's Datashare International Ltd. is a petroleum industry service company involved primarily in providing well log data and seismic processing services. Riley's was founded in 1950 as a reproduction and supply company and worked closely in its early years with the petroleum industry in developing a well log library for Canada. The Log Division operates a library of Canadian well logs. It provides this distribution from a

comprehensive library of over 540 000 logs in both hardcopy and microfiche formats. The Digital Division is primarily engaged in building a database of well logs in digital format, and supplying data and related analytical services to the Canadian and international markets. It also markets microcomputer-based applications software which uses digital log data. The Seismic Processing Division operates a processing centre for the Canadian market.

RockBit Industries of Canada (1985) Ltd.

3677 Burtleigh Crescent S.E.
Calgary, Alberta
Canada T2H 1Z7
Telephone: (403) 255-3730
Facsimile: (403) 255-3721
Contact: Lawrence M. Pedersen, President

RockBit Industries of Canada (1985) Ltd. is primarily a research and development facility with a reputation for innovative technology and customer service. The company has made numerous technological advancements—a high speed dual bearing system, a mechanical lock-up feature, indication systems for bearing or gage failures, and two-cone deviation control bits. RockBit has worked with several major companies as a custom bit manufacturer. Projects have ranged from prototype bits and special application bits to improved cutting structure designs.

RSI Research Ltd.

10, 10114 MacDonald Park Road
Sidney, British Columbia
Canada V8L 3X9
Telephone: (604) 656-0101
Facsimile: (604) 656-1161
Contact: Chris Roper, Marine Robotics Manager

RSI Research Ltd. conducts research and development and also designs and manufactures subsea equipment. Its products include subsea advanced master/slave remote manipulator systems; undersea custom tools; advanced control systems for large hydraulic equipment; grapple yarders and front-end loaders, diggers and excavators; and internal pipe crawlers for pipeline inspection. The company's products have been exported to the U.S., Asia, Australia and Europe.

Russell Technologies Inc.

4909 - 75th Avenue
Edmonton, Alberta
Canada T6B 2S3
Telephone: (403) 469-4461
Facsimile: (403) 468-2076
Telex: 037-2966
Contact: Jim Yukes, Sales Representative

Russell Technologies Inc. was formed in 1973 to meet the increasing demand for non-destructive examination services. The company's expertise ranges from the correct procedure for the tightening of an individual bolt to the coordination of complete plant shut-downs. The company's products include *Radalarm II* radiation monitor and the *Radalarm II* field meter. These meters and monitors combine audible and visual alarms; the field meter includes a survey meter. Settings are adjustable and they are worn on the belt to free hands and ensure safety. The products' leather cases have pockets for dosimeter and film badge.

The company's *Ferroscope System* is the only practical method for examining

ferro-magnetic tubes in boilers, feedwater heaters and heat exchangers. The system provides significant savings in equipment life-extension and preventative maintenance. Defects which the system detects include general wall loss, fretting, corrosion, erosion and pitting. A pipeline 'pig' for 4 in. flow lines is being developed.

S.I.R. Locator Service Sourcing & Purchasing Inc.

105, 3016 - 5th Avenue N.E.
Calgary, Alberta
Canada T2A 6K4
Telephone: (403) 235-1058
Facsimile: (403) 248-2899
Contact: Pieter Gijzenbergh, Managing Director

S.I.R. Locator Service Sourcing & Purchasing Inc. is an international equipment brokerage firm that was established in Canada in 1988 for the purposes of marketing, consulting, representing and assisting multinational organizations and large industries in the marketing and selling of high capital value, new and used, surplus equipment or machinery. The company arranges and supervises the dismantling and loading procedures, financial arrangements, export licences, transport, shipping arrangements, insurance, and other details. Other services include quote purchasing—project planning, quote assembly, tenders and organizational services; and a locator service for foreign buyers to quickly, efficiently and anonymously locate potential suppliers.

S.N. Hanson Group Enterprises Ltd.

7450 - 18th Street
Edmonton, Alberta
Canada T6P 1N8
Telephone: (403) 440-2916
Facsimile: (403) 440-4175
Contact: Gary D. Stuart, General Manager

Hanson Materials Engineering, a division of S.N. Hanson Group Enterprises Ltd., is comprised of consulting engineers, technologists and inspectors with expertise in power generation, the offshore petroleum sector and other sectors. Hanson offers a specialized engineering consulting service which includes preparation of specifications, failure analysis, plant evaluations and audits, and materials evaluations in the areas of metallurgy, welding, corrosion, polymers, and quality assurance. The Non-Destructive Testing Division employs technologically advanced equipment. With the largest group of technicians in Canada, the company has successfully completed many of the most prominent construction projects awarded since 1970.

Sander Geophysics Limited

303 Legget Drive
Kanata, Ontario
Canada K2K 2B1
Telephone: (613) 592-1301
Facsimile: (613) 592-1302
Telex: 053-4755
AnswerBack: geosand
Contact: George W. Sander, President

Sander Geophysics Limited was established in 1956 and has grown to be a major organization in the field of airborne geophysical surveying. The company provides a variety of airborne surveys to the oil and gas industry. These surveys assist in the initial evaluation of new exploration areas and aid considerably in the exploration of developed areas. The company operates three fixed-wing aircraft and one helicopter equipped with GPS

(Global Positioning System) satellite instrumentation and Inertial Navigation System. Sander Geophysics has developed systems to fly airborne geophysical aircraft in areas which are either not well mapped or provide poor reference on the ground, particularly offshore areas. It has experience in depth calculation and other mathematical evaluation of data, and geological interpretations. The company operates a large data processing centre which provides services for its own surveys, as well as for other companies. The company also develops methods and programs for the evaluation of airborne geophysical survey data.

Sandwell Inc.

666 Burrard Street
Vancouver, British Columbia
Canada V6C 2X8
Telephone: (604) 684-0055
Facsimile: (604) 684-7533
Telex: 04-51275
AnswerBack: swanco ver
Contact: R.E. Anderson, Director, Business Development

Sandwell Inc., a group of consulting companies, has been planning and engineering projects in Canada, the U.S. and worldwide since 1949. Sandwell has emerged to international prominence in the planning and engineering of ports, harbour installations, offshore structures, bulk terminals, materials handling, transportation systems and specialized Arctic facilities.

Their DATAP Systems Division supplies real-time automation and information management systems. The company's software products, developed through extensive research and development programs, provide comprehensive capabilities in remote control, monitoring and facility management. DATAP's installed products for the oil and gas industry include multiprocessor minicomputer supervisory control and data acquisition networks for petroleum production and pipelines. The projects completed for the industry include engineering, software, turnkey system



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services and installation management related to distributed multiprocessor networks; batch tracking and leak detection packages; extremely fast response, highly flexible man/machine interface; and production automation systems, using both mini and microcomputer-based master and field production metering.

Seatronics Technologies Ltd.

304 - 3700 Gilmore Way
Burnaby, British Columbia
Canada V5G 4M1
Telephone: (604) 437-4781
Facsimile: (604) 430-3035
Contact: Jacques Heyrman, President

Seatronics Technologies Ltd. was founded in 1983 to undertake research and development in the field of hydrodynamics. At the B.C. Research Ocean Engineering Centre in Vancouver, *Hydralift Skegs* and energy efficient tug/barge designs were developed. At present, 15 vessels fitted with *Hydralift Skegs* are operating worldwide, mostly in support of the offshore gas and oil industry in areas where marine transportation services to oil and gas exploration and production is required (the U.S. Gulf and West Coast, the North Sea and the Middle East).

SEI Industries Ltd.

7400 Wilson Avenue
Delta, British Columbia
Canada V4G 1E5
Telephone: (604) 946-3131
Facsimile: (604) 940-9566
Telex: 04-355779
AnswerBack: sei ind vcr
Contact: Peter Van Bodegom, Sales Manager

SEI Industries Ltd. is known internationally for its expertise in aerial fire-fighting equipment. The company manufactures the *Bambi Bucket* which is recognized as the most advanced bucket

available for aerial attack by helicopters. It is used for fire-fighting in more than 40 countries by commercial helicopter operators, government agencies and military forces. It recently won the prestigious Ernest C. Manning award for outstanding design innovation in Canada. The company also manufactures a complete line of lightweight, air transportable storage tanks. The *Fuel Easy* is a collapsible fuel container used to transport fuel by helicopter. *Terra* tanks are air transportable tanks used for fuel, chemical or water storage, and are available in sizes ranging to 200 000 litres.

Select Energy Systems Inc.

1165J - 44th Avenue S.E.
Calgary, Alberta
Canada T2G 4X4
Telephone: (403) 243-7542
Facsimile: (403) 243-7977
Telex: 03-825512
Contact: Les Tomlin, Vice President,
Marketing

Select Energy Systems Inc., established in 1988, is a specialty manufacturer and supplier of parts and accessories to the coiled tubing industry. These include single and double coiled tubing hangers, BOPs, annular BOPs, stripper BOPs, production packers, setting tools, drilling (mud) motors, and other specialty tools for international markets.

Servipetrol Ltd.

P.O. Box 7010, Station E
Calgary, Alberta
Canada T3C 3L8
Telephone: (403) 266-2535
Facsimile: (403) 264-8297
Telex: 03-821172
AnswerBack: cgy
Contact: Roberto Aguilera, President

Servipetrol Ltd. was established in 1981 to provide petroleum consulting services, software and training to companies worldwide. The company has unique

expertise in the evaluation of naturally fractured reservoirs. This has led to their services being provided in more than 25 countries. The company offers services ranging from geological evaluation to reservoir engineering studies, including prospect evaluation, well log interpretation, reserves evaluation, reservoir performance analysis, numerical simulation, well test analysis and economic evaluation.

Shaw Pipe Protection Ltd., CANUSA Division

25 Bethridge Road
Rexdale, Ontario
Canada M9W 1M7
Telephone: (416) 743-7111
Facsimile: (416) 743-7199
Telex: 06-989435
Contact: Fred Wutschert, Marketing Manager

The CANUSA Division of Shaw Pipe Protection Ltd. began operations in 1966 and provides field joint protection products. With a strong base in plastics engineering, as well as sealants and coatings technology, CANUSA engineers have developed a wide variety of heat shrinkable pipeline products. The *CANUSA Wrapid Sleeve* system is a unique one-piece heat shrinkable wraparound sleeve. The patented design incorporates a welded closure strip that fuses the overlap to the underlap during shrinking. This premium product and their regular wraparound sleeves and heat shrinkable tube sleeves are available in a wide range of backings and sealants to suit specific operating temperatures and environmental conditions. The *CANUSA Wrapid Tape™* is a primerless heat shrinkable tape which is used on fittings, risers, elbows and irregular configurations to prevent corrosion. Other products include the *CANUSA Repair Patch* for the repair of damaged pipe coatings, the *CANUSA Protection Kit* to provide a complete seal of thermite brazed, cathodic protection wire connections and the *CANUSA Casing Seal Kit* that provides a permanent seal on pipeline casings to electrically isolate pipelines from metallic casings.



Sierra Drilling Ltd.

1070,7001 - 4th Avenue S.W.
Calgary, Alberta
Canada T2P 3J4
Telephone: (403) 266-1900
Facsimile: (403) 266-1926
Contact: R.D. Edwards, Vice President

Sierra Drilling Ltd. is recognized as a world leader in slant hole or angle drilling. Sierra has drilled more than 800 slant wells and many thousands of conventional wells. The company provides slant hole drilling rigs and technology, i.e. equipment that drills at angles up to 45° from surface. This is accomplished by changing the angle of the derrick and permits straight line drilling to achieve horizontal displacements. Its markets are primarily in pad or multiwell applications, such as heavy oil. Sierra has provided its services in South America and Asia.

Simmons Group Inc.

700, 1207 - 11th Avenue S.W.
Calgary, Alberta
Canada T2C 0M5
Telephone: (403) 245-5156
Facsimile: (403) 245-5156
Telex: 03-827662
AnswerBack: sg canada sg
Contact: Dale M. Simmons, Chairman

The Simmons group of companies originated in 1962 with the formation of Simmons Drilling Ltd. To satisfy a growing oil well drilling market, Simmons became involved in the design and fabrication of efficient and innovative drilling rigs. Diversification in the early 1970s led to the creation of Western Underground Contractors, a company that develops underground salt caverns for the storage of petroleum and natural gas. This was followed by the acquisition of a natural gas transmission system by which Simmons Pipelines Ltd. transports a total of more than 225 MMCFD of gas to Synude and to the NOVA System in Alberta. Responding to the world's

growing concern for the environment, Simmons entered the 1990s with the formation of Noram Environmental Solutions Inc. Through its two subsidiaries, Alternative Fuel Systems Inc. and Deep Shaft Technology Inc., Noram markets an electronic, computer-driven, dual fuel kit for diesel engines and an innovative wastewater treatment process. The kit converts engines to run on economic natural gas; the Deep Shaft process efficiently treats biodegradable waste with a fraction of the land or energy required of conventional methods.

SIMTECH Consulting Services Ltd.

2005, 205 - 5th Avenue S.W.
Calgary, Alberta
Canada T2P 2V7
Telephone: (403) 262-4885
Facsimile: (403) 263-8556
Telex: 038-22763
Contact: Geoffrey M. Warren, Marketing Representative

SIMTECH Consulting Services Ltd. is an advanced technology consulting and software research and development firm, specializing in numerical simulation programs for the petroleum industry. Applications include hydraulic fracturing, reservoir modelling, tar sands/geomechanical modelling and well test analysis. The company's markets include all oil and gas operating and service companies worldwide.

Smart Turner Limited

191 Barton Street East
Hamilton, Ontario
Canada L8L 2W7
Telephone: (416) 527-4567
Facsimile: (416) 527-7173
Contact: T.D. Lindermere, General Manager

Smart Turner Limited has more than 100 years of experience in the design and manufacture of heavy duty industrial and municipal pumps. Their products include ANSI-B73.1 and standard end suction, double suction, multistage, vertical sump, non-clog, refuse, and vertical cantilever centrifugals. Also available are reciprocating steam and power pumps; sizes range from 1 to 12 in. discharge while materials vary from cast irons and steels to a full selection of corrosion resistant alloys, including bronzes, stainless steels, hastelloys, and titaniums. The quality and performance of the company's products are ensured by manufacturing quality assurance programs to CSA Z299.3 and Z299.4, and pump testing to the standards of the Hydraulic Institute.

Solid Resources Limited

304, 513 - 8th Avenue S.W.
Calgary, Alberta
Canada T2P 1G3
Telephone: (403) 237-8050
Facsimile: (403) 266-1464
Contact: Jim Lake, Sales Manager

Solid Resources Limited specializes in wireline and well testing. Its Solid Well Testing Division provides operating crews and equipment for sweet and sour gas well testing, rental of oil field production and testing equipment, absolute open-flow potential determination, reservoir evaluations and limit tests, repair and maintenance of production equipment, and the provision of crews for gas plant operations. Its Solid Wireline Services Division supplies wireline equipment for sweet and sour gas well testing, mechanical



equipment of sweet and sour service, B.H.P. and temperature equipment for low or high pressure wells, and electronic equipment for downhole or surface printouts; design and manufacture of special tools and a complete pressure control service.

Spilsbury Communications Ltd.

1495 Franklin Street
Vancouver, British Columbia
Canada V5L 5B6
Telephone: (604) 254-6411
Facsimile: (604) 254-2080
Telex: 04-55482

AnswerBack: split in vcr
Contact: Berge Tuysuzian, Manager,
International Marketing

Spilsbury Communications Ltd., incorporated in 1941, has developed commercial, medium and long range, high frequency, single side band (HF SSB) communications. In recent years, the company has diversified its activities and developed a range of digital voice products; it has also become a major supplier of VHF car radio telephones. Today, Spilsbury's marketing and service network extends into more than 50 countries. Exports account for half of the company's annual sales.

In 1986, Spilsbury incorporated R.A.C.E. Technologies Inc., purchasing the right to further develop, manufacture and market RACE—automated HF radio and telephone system for voice data communications networks. R.A.C.E. has also developed a range of modems for error free transmission of facsimile and data over HF networks. Racial Communications of the U.K. markets R.A.C.E. products on a worldwide basis.

Sproule Associates Limited

900, 140 - 4th Avenue S.W.
Calgary, Alberta
Canada T2P 3N3
Telephone: (403) 269-7951
Facsimile: (403) 237-0201
Telex: 03-821172
Contact: Rudolf Cech, Director

Sproule Associates Limited provides worldwide geological and engineering services to the petroleum and mineral industries and to governments and international agencies concerned with resource development. It now employs about 75 persons, including professional geologists and engineers in many parts of the world. The company's services include oil and gas reserve determinations, property and company evaluations, subsurface geological analyses, petroleum engineering services, feasibility studies, field surveys, photogeological interpretations, consultation, exploration and development, management of oil and gas companies and properties, and advice on petroleum investments.

Spring Instant Structures Ltd.

1001 - 10th Avenue S.W.
Calgary, Alberta
Canada T2P 0B7
Telephone: (403) 245-3371
Facsimile: (403) 229-1980
Contact: F.B. Irvine, Vice President

Spring Instant Structures Ltd. was incorporated in 1971 and evolved from a research and development program which was initiated in 1969 in cooperation with the Canadian Government. Over the succeeding four years, the *Membrane Stress Theory* evolved and was refined and put into practical application in the form of the present *Spring Instant Structure*. This application or technique is patented in every industrialized nation in the western world. The structures have been sold in more than 50 countries, including the Arctic regions. *Spring Instant Structures*

are portable and modular and can be quickly erected and dismantled. They are the answer to the need for economical enclosed space and are suitable as warehouses, maintenance depots, workshops, pipe assembly plants, construction covers, equipment and vehicle storage depots, and emergency shelters.

Starozik Industries Ltd., Ruffneck Heaters Division

2827 - 18th Street S.E.
Calgary, Alberta
Canada T2E 7K5
Telephone: (403) 291-5488
Facsimile: (403) 291-7042
Contact: Ian McDonald, Marketing
Manager

Ruffneck Heaters Division is a manufacturer of specialty heating equipment which is used primarily in hazardous locations where explosion-proof units are required. Ruffneck has been manufacturing and marketing its high quality, rugged, industrial heating equipment for 15 years. These heaters are sold extensively throughout North America, Europe, China and U.S.S.R.

Stelco Inc., Stelpipe Division

P.O. Box 1010
Welland, Ontario
Canada L3B 5Y6
Facsimile: (416) 735-2055
Contact: D.W. Johnstone, Sales Manager,
Oil and Gas Eastern

The Stelpipe Division of Stelco Inc. was originally established in 1900. The division manufactures a large variety of line pipe for the oil and gas industry at its two manufacturing locations in Canada—Camrose, Alberta and Welland, Ontario.

Strata Drill Ltd.

P.O. Box 494
Okotoks, Alberta
Canada T0L 1T0
Telephone: (403) 236-1600
Facsimile: (403) 279-1868
Contact: Roger Hoffort, President

Strata Drill Ltd. has been in business for 22 years and manufactures polycrystalline diamond bits, including core bits.

Stream-Flo Industries Ltd.

4505 - 74th Avenue
Edmonton, Alberta
Canada T6B 2H5
Telephone: (403) 468-6789
Facsimile: (403) 469-7724
Telex: 037-2869
Contact: J.D. McNeill, President

Stream-Flo Industries Ltd. was established in 1962 to design and manufacture wellhead equipment. The company markets its products under the brand name of CROWN. These wellhead products include adaptor flanges, bowl protectors, back pressure valves and plugs, casing hangers, head and spools, combination test plugs and retrieving tools, crosses, tees adaptors, drilling flanges, gate valves, secondary pack-offs, subsurface safety control valves, tubing hangers, tubing head adaptors and tubing heads. CROWN Swing Check Valves are available in 0.5 to 56 in., 275 to 6 000 psi working pressure. All Stream-Flo products are licensed with the American Petroleum Institute. Today, Stream-Flo sells its products in Canada, Asia and Northern Africa.

Sunada Tech. Inc.

3, 415 Monument Place S.E.
Calgary, Alberta
Canada T2A 1X4
Telephone: (403) 235-6684
Facsimile: (403) 269-2419
Contact: Norm Roscovich, Sales Manager

Sunada Tech Inc. was established in 1985 for the manufacture, sales and service of electronic geophysical equipment to the oil and gas industry. Sunada provides turnkey electronic surface and subsurface data collection systems. Its product line consists of three main systems—electronic, battery powered, memory pressure/temperature probe (MODEL ST18000); real-time, conductor line pressure/temperature surface and subsurface probes (MODEL STIRTP); and radio telemetry systems for remote data transmission. These products have applications in the production and service sectors. Field results show that users enjoy a reliability/success rate of more than 98 percent.

Sussex Manufacturing Ltd.

P.O. Box 692, Industrial Park
Sussex, New Brunswick
Canada E0E 1P0
Telephone: (506) 432-1130
Facsimile: (506) 432-1135
Contact: Marc Blanchard, Vice President

Sussex Manufacturing Ltd. is a manufacturer of waste oil refiners. The Shurtleff SX 302 Waste Oil Refiner was designed for ease of operation and servicing. Encased in detachable metal panels, the mechanism is assembled to facilitate the service or replacement of any part. Parts, piping and switches are readily available at any hardware dealer virtually anywhere in the world. The main components are a waste oil storage tank, cracking chamber, combustion chamber, heat exchangers, refined end-product storage tank, bleed-off line, and piping. The SX 302 Refiner was designed to

operate 24 hours/day, with approximately 5 percent downtime for cleaning. All plumbing parts are of the highest quality durable metals and routine operation can be mastered in a short period of time.

Taro Industries Ltd., Rostel Industries Division

4535 - 8A Street N.E.
Calgary, Alberta
Canada T2E 4J6
Telephone: (403) 276-9785
Facsimile: (403) 230-0877
Contact: Lloyd Bridge, Sales Representative

Rostel Industries was founded as a private company in 1976 before becoming a division of Taro Industries Ltd. in 1985. It designs, manufactures and repairs oil and gas drilling rig equipment to meet or exceed API specifications. Rostel has complete machining, fabrication, mechanical and inspection facilities. The company has successfully served the drilling industry in Western Canada and the U.S. and many countries in Europe and Asia.

Tartan Engineering Corporation Ltd.

11, 1915 - 32nd Avenue N.E.
Calgary, Alberta
Canada T2E 7C8
Telephone: (403) 250-7915
Facsimile: (403) 250-1194
Contact: James Shedden, Vice President,
Marketing

Tartan Engineering Corporation Ltd., established in 1977, serves the energy processing industry by providing complete turnkey engineering and management services in the area of oil and gas surface facilities and pipelines. The company offers a proven track record of engineering and management expertise which includes process, civil, mechanical and electrical engineering disciplines. Management functions include conceptual/feasibility studies, economic evaluations, budgeting,



cost control, procurement, and expediting and inspection.

Techno Scientific Inc.

60 Caster Avenue
Woodbridge, Ontario
Canada L4L 5Y9
Telephone: (416) 851-9958
Facsimile: (416) 851-6314
Contact: David Johnston, Marketing
Manager

Founded in 1980, Techno Scientific Inc. (TSI) is an advanced technology firm that specializes in non-destructive testing systems, robotic systems and sensors. TSI's non-destructive testing system design, development and service capabilities include ultrasonics and eddy current.

Telematic Controls Inc.

2, 9804 - 47th Avenue
Edmonton, Alberta
Canada T6E 5P3
Telephone: (403) 436-0511
Facsimile: (403) 436-9039
Contact: Brian L. McClelland, General
Manager

Telematic Controls Inc. has been manufacturing a standard line of thermal dispersion flow and level switches and mass flowmeters for more than 20 years. The company exports to the U.S., U.S.S.R., and China.

Terra Linda Canada, Inc.

600, 510 - 5th Street S.W.
Calgary, Alberta
Canada T2P 3S2
Telephone: (403) 262-2170
Facsimile: (403) 262-3549
Contact: Deborah Miles, President

Terra Linda Canada, Inc. is a geophysical company formed in 1988 and is a leader in AVO seismic technology. It holds the exclusive licence to the newly developed and patented seismic geophone. The *OMNIPHONE* is a three-component geophone with a polarization filter that sends the three data components down a single line or channel. It is the first and only seismic geophone to have a computer and signal processor as part of the device. This product eliminates the need for two-thirds of the costly field equipment in three-component seismic recording and improves the quality of recorded seismic data. Used in the oil industry, the *OMNIPHONE* is available for distribution worldwide.

Terra Surveys Limited

2060 Walkley Road
Ottawa, Ontario
Canada K1G 3P5
Telephone: (613) 731-9571
Facsimile: (613) 731-0453
Telex: 053-3502
AnswerBack: geoterra
Contact: J.R. Depper, President

Established in 1966, Terra Surveys Limited provides consulting, engineering and technical services in the photogrammetric, hydrographic and geophysical fields. As one of Canada's largest resource mapping and development organizations, the firm is particularly oriented to the provision of surveying, mapping and engineering services for G.I.S. projects. It is equipped with modern air survey cameras, ground and airborne geodetic survey units, precise photogrammetric instrumentation, a complete photographic laboratory and a

data processing facility. Their Hydrographic Division provides a complete surveying service in all waters—offshore, coastal, inland and Arctic. Its capabilities in collecting and compiling hydrographic data have been proven in numerous projects, such as charting, drill site investigations, pipe and transmission line crossings and environmental assessments.

The Armstrong Monitoring Corporation

215 Colonnade Road South
Nepean, Ontario
Canada K2E 7K3
Telephone: (613) 225-9531
Facsimile: (613) 225-6965
Contact: William L. Armstrong, Vice
President and General Manager

Established in 1981, The Armstrong Monitoring Corporation has become an industry leader in the development and manufacture of hazardous gas and vapour monitoring systems. Armstrong's diverse product line allows it to meet gas and monitoring requirements for a wide range of industries, including petrochemical. Designed to provide choice and flexibility to the customer, the product line includes portable and hand-held units, fixed multipoint systems in rack or wallmount configurations, and sensor/transmitter units that can be interfaced with building management systems or data acquisitions equipment.



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Canada

Thermo Design Engineering Ltd.

P.O. Box 5557, Station L
Edmonton, Alberta
Canada T6C 4E9
Telephone: (403) 440-6064
Facsimile: (403) 440-1657
Telex: 037-2966
Contact: Brent Gibson, Sales Manager

Thermo Design Engineering Ltd. and its 90 employees provide detailed engineering, design and fabrication services to the petroleum and petrochemical industries worldwide. The company specializes in natural gas processing facilities and equipment for LPG recovery, acid gas sweetening, sulphur recovery, dehydration and separation.

Timberland Equipment Limited

459 Industrial Avenue
Woodstock, Ontario
Canada N4S 7Z2
Telephone: (519) 537-6262
Facsimile: (519) 539-5853
Telex: 064-74133
AnswerBack: telcot wdsk
Contact: James R. Leslie, Vice President and Marketing Manager

Since 1947, Timberland Equipment Limited has earned an international reputation for the design and development of heavy equipment for various applications. The company's cranes, winches and custom built blocks have assisted in the construction of numerous offshore oil drilling platforms.

Top-Co Industries Ltd.

7720 - 17th Street
Edmonton, Alberta
Canada T6P 1S7
Telephone: (403) 440-4440
Facsimile: (403) 440-4443
Telex: 037-3842
AnswerBack: topco edm
Contact: Bob Ryll, Export Sales Manager

Top-Co Industries Ltd., a manufacturer of primary cementing equipment, was established in 1963 and exports its equipment worldwide. The company manufactures a complete line of primary cementing equipment, float shoes and collars, guide shoes, stage collars, plug dropping heads, welded and non-weld centralizers, and a complete line of casing scratchers, stop collars and cement baskets.

Topco Oilsite Sales Ltd.

3603 - 2nd Street N.E.
Calgary, Alberta
Canada T2E 3H6
Telephone: (403) 230-1558
Facsimile: (403) 230-4591
Contact: Rick Kane, General Manager

Topco Oilsite Sales Ltd. is dedicated to manufacturing high quality products, as well as formulating new compounds and sealants to meet the changing requirements of the oil and gas industry. It has successfully developed a line of high temperature products for heavy oil projects, a 'dry' lubricant used in transportation, and a non-lead tubing and casing compound. The company assists in any technical matters related to thread compounding and specialty lubricants. Technical seminars are conducted for drilling and servicing contractors, supply stores and oil companies. Its products and services have been provided to clients in the U.S., U.S.S.R. and India.

Travis Chemicals Inc.

1900, 777 - 8th Avenue S.W.
Calgary, Alberta
Canada T2P 3R5
Telephone: (403) 263-8660
Facsimile: (403) 233-7011
Telex: 038-25587
Contact: Jack Curr, International Division Manager

Travis Chemicals Inc. owns and operates two chemical manufacturing facilities and is a diversified supplier and manufacturer of specialty chemicals. Travis also supplies technical services internationally and has developed a network of field blending facilities and distribution centres. The company operates a research and development laboratory for field services, and manufactures and supplies oil and gas production specialty chemicals, gas and oil process chemicals, additives for drilling fluids/acidizing products, and products for heavy industry water treatment. The company provides its products and services to Canada, China, the U.S.S.R., Cuba, the Middle East, Indonesia, India and Pakistan.

Trecan Combustion Limited

6685 Millcreek Drive, Unit 6
Mississauga, Ontario
Canada L5N 5M5
Telephone: (416) 826-8631
Facsimile: (416) 826-8631
Contact: P.B. Miller, General Manager

Trecan Combustion Limited offers extensive experience in the design, manufacture, installation and commissioning of industrial combustion equipment and services to clients in Canada, the U.S. and Asia. It specializes in providing engineered solutions to complex combustion problems, often on a turnkey basis. The equipment is used extensively in refineries and the petrochemical industry and includes incinerators for liquid, gaseous and solid wastes; and burners (oil, gas, dual fuel) for



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Canada

fired heaters, reformer and steam generators.

Tri Ocean Engineering Ltd.

600, 926 - 5th Avenue S.W.
Calgary, Alberta
Canada T2P 0N7
Telephone: (403) 266-4400
Facsimile: (403) 266-5525
Telex: 03-822798
AnswerBack: tri ocean
Contact: R.A. McBeth, Principal

Tri Ocean Engineering Ltd. is comprised of a highly skilled group of professionals who provide comprehensive engineering and project management services to the petroleum industry on a worldwide basis. Their experience and expertise is primarily related to evaluation, detailed design and management services for offshore production and drilling systems; Arctic production and drilling systems; conventional oil and gas gathering, treating and secondary recovery facilities; offshore and onshore exploratory drilling and field development; and feasibility studies, development plans and emergency response planning. The company offers complete project support through all stages of a project from preliminary engineering and economics evaluation through detail design, installation and start up. The full scope of services can be made available under a project management arrangement—expert supervision and direction of a project while the client retains full control of major decisions.

Trinac Limited, Kenting Hi-Tower Drilling Division

1610, 300 - 5th Avenue S.W.
Calgary, Alberta
Canada T2P 2V8
Telephone: (403) 298-5266
Facsimile: (403) 298-5258
Telex: 03-825633
AnswerBack: trinac ho cgy
Contact: A.D. Tyson, Vice President

Kenting Hi-Tower Drilling is a major Canadian drilling organization. Kenting and its affiliates own 85 land drilling rigs and currently are operating 57 rigs in Canada, 20 in the U.S. and eight in the U.K., Europe and the Middle East. Kenting has drilled more than 4 000 wells in Canada and more than 350 in the U.S. Its international operations commenced in 1972 and it has drilled over 650 wells in Europe and Africa. Since 1983, the company has provided 130 personnel to operate and maintain the semi-submersible *Kulluk* and the mobile Arctic Caisson *Molikpaq* offshore rigs which are operating in the Beaufort Sea. Kenting has been contracted by more than 300 oil, gas and geothermal energy producing companies.

Tubetest Service & Supply Ltd.

6774 - 52nd Avenue
Red Deer, Alberta
Canada T4N 4K9
Telephone: (403) 346-6161
Facsimile: (403) 347-3740
Contact: Mitch Sullivan, President

Tubetest Service & Supply Ltd. was incorporated in 1961 as a service and supply company to the oil and gas industry. In 1965, they expanded their services to the Canadian East Coast and offshore Beaufort Sea, and now serve clients worldwide. Their *Tubetest (P.T.C.) Power Thread Cleaner* is a convenient, ruggedly designed, light weight and performance proven system for cleaning all types and sizes of threaded connections in preparation for inspection and make-up.

P.T.C.'s special brush and solvent system thoroughly cleans in 5 to 15 seconds per thread. All dirty solvent is collected, filtered and recycled, resulting in no spillage on the rig floor or in the ocean.

Tydac Technologies Inc.

1600 Carling Avenue, Suite 310
Ottawa, Ontario
Canada K1Z 8R7
Telephone: (613) 722-7472
Facsimile: (613) 722-8682
Contact: Giulio Maffini, President

Established in 1982, Tydac Technologies Inc. specializes in the development of Geographic Information System (GIS) software and related applications. Tydac's main product is *SPANS™* (SPatial ANALysis System). *SPANS* and its related software packages are designed for GIS professionals who want a stand-alone desktop workstation with strong data integration, analysis and modelling capabilities. *SPANS* can rapidly process complex geographically referenced databases in all three key data structures (vector, raster and quadtree), along with images of varying resolution. More than 800 *SPANS* systems have been installed in more than 37 countries. Tydac provides a full range of GIS support services with *SPANS*, including training, hot lines, applications consulting, database development and customized software.



Industry, Science and Technology Canada

Industrie, Sciences et Technologie Canada

Canada

United Corrosion Corporation

P.O. Box 5560, Station L
Edmonton, Alberta
Canada T6C 4E9
Telephone: (403) 440-1356
Facsimile: (403) 440-4413
Contact: Tom Burke, Manager, Finance
and Administration

United Corrosion Corporation specializes in products and services related to corrosion and serves Canada, the U.S. and Asia. Its subsidiary company, United Corrosion Consultants Ltd. concentrates on cathodic protection and internal corrosion monitoring. Utilizing specialized products and procedures, internal and external corrosion control measures can be implemented. Its approach is to undertake and evaluate corrosion problems; then it engineers, designs and installs a cathodic protection system. It also supplies rectifiers, anodes, coke breeze and all other materials used in the cathodic protection industry.

Another subsidiary company, United Pipeline Systems Inc., installs high density polyethylene liners into pipelines to prevent internal corrosion of the pipeline. It concentrates on oil field water injection and water disposal systems. The advantages to its liner system include relatively few joints; the integrity of the liner can be monitored with the venting system.

United Resource Safety Limited

340, 525 - 28th Street S.E.
Calgary, Alberta
Canada T2A 6W9
Telephone: (403) 273-7774
Facsimile: (403) 273-0963
Telex: 038-21501
Contact: Fred S. Farmer, Marketing
Manager

United Resource Safety Limited, established in 1987, provides safety inspections, emergency response plans, on-site inspections, gas plant services (H₂S drilling, drill stem testing, etc.), loss control management and safety training. These services are provided in Canada, the U.S., Asia, South America and Africa.

Universal Industries Ltd.

P.O. Box 1590
Lloydminster, Saskatchewan
Canada S9V 1K5
Telephone: (306) 875-6161
Facsimile: (306) 875-6169
Contact: Rod Steward, Manager, Sales and
Marketing

Universal Industries Ltd. are leaders in the manufacture, supply and service of process equipment for heavy oil projects. Their equipment includes oil field pumping units, tankage pressure vessels, treaters, production well testing equipment, and desanding equipment. Established in 1949, the company serves Canadian, U.S. and Caribbean clients.

Universal Systems Ltd.

270 Rookwood Avenue
Fredericton, New Brunswick
Canada E3B 2M2
Telephone: (506) 458-8533
Facsimile: (506) 459-3849
Telex: UC 7601184
AnswerBack: usls

Universal Systems Ltd., incorporated in 1979, develops and markets digital mapping and Geographic Information Systems. The basis of these systems is their software package entitled *CARIS (Computer Aided Resource Information System)*. Disciplines where *CARIS* can be applied include topographic mapping, geology, cadastral mapping and data management, hydrographic charting, and environmental sciences. The company conducts research into improved techniques for *CARIS* functionality and provides integrated solutions to clients interested in GIS technology. These solutions involve the assembly and integration of hardware and software solutions and the provision of training, support, software development services and consulting programs. The provision of consulting services in the field of spatial information systems includes the review of emerging technology to the prototype user requirements within a controlled pilot study. The company and its representatives market and support *CARIS* worldwide.



Universe Machine Corporation

5546 - 89th Street
Edmonton, Alberta
Canada T6E 5P9
Telephone: (403) 468-5211
Facsimile: (403) 468-5430
Contact: Kurt Feigel, President

Universe Machine Corporation manufactures and repairs medium to large machinery, including valves, material handling equipment and various other products for the pipeline, oil field, petrochemical, and steel fabrication. The company's products and services include custom valve manufacture, custom equipment manufacture, valve hydrostatic test equipment, welding and positioning equipment, oil field casing equipment, specialized hydraulic machinery, valve repair, machining and grinding, fabrication, and heavy equipment repair and assembly. The company and its 80 employees export to the U.S. and Australia.

Valmet Automation (Canada) Ltd., Valmet-Sentrol Division

1, 6325 - 12th Street S.E.
Calgary, Alberta
Canada T2H 2K1
Telephone: (403) 253-8848
Facsimile: (403) 259-2926
Telex: 03-825784
Contact: David P. Jardine, Vice President,
Marketing, Sales & Service

Valmet-Sentrol Division has been building and installing Supervisory Control and Data Acquisition (SCADA) systems for oil and gas pipeline/production since 1971. A SAGE SCADA system provides the accurate metering information essential in the operation of distribution and transmission lines. Field devices connect directly to Remote Terminal Units (RTUs) for accurate flow data to provide total control from a central location. A family of SAGE RTU 800s handle field applications from the wellhead to the

consumer. The RTUs are fully integrated and can handle both control and monitoring at compressors or pump stations. Powerful software executes pipeline start up and shut-down procedures, and coordinates station control. A dynamic pipeline model for leak detection is also available.

Vancouver Shipyards Co. Ltd.

50 Pemberton Avenue
North Vancouver, British Columbia
Canada V7P 2R2
Telephone: (604) 988-6361
Facsimile: (604) 984-1843
Telex: 04-352532
AnswerBack: seaspan vcr
Contact: Bill Armstrong, Marketing
Supervisor

Incorporated in 1902, Vancouver Shipyards Co. Ltd. has established itself as one of the foremost shipbuilding and ship repair operations on the Pacific coast. The company also constructs offshore platforms and platform modules, and provides complete engineering services.

Variperm (Canada) Limited

8, 3424 - 26th Street N.E.
Calgary, Alberta
Canada T1Y 4T7
Telephone: (403) 250-7263
Facsimile: (403) 250-9695
Contact: Perry Parker, International
Marketing

Variperm (Canada) Limited specializes in sand control equipment for the oil and gas industry. Incorporated in 1968, the company has supplied products and technical expertise throughout Western Canada, the U.S., Caribbean and the Middle East. Variperm can offer a wide range of products and services from open-hole gravel packs, cased-hole barefoot completions, or engineering support for completion designs. Variperm manufactures all of its own wire-wrapped screen, pre-pack equipment and liner

hangers. The company offers its expertise in heavy oil thermal projects, high volume conventional oil and gas wells and domestic water well programs. Variperm's reaction time throughout the world is excellent because products are manufactured in-house and are shipped under a general export permit.

Velan Inc.

2125, promenade Ward
Montreal, Quebec
Canada H4M 1T6
Telephone: (514) 748-7743
Facsimile: (514) 748-7743
Telex: 05-835668
Contact: Thomas C. Velan, Vice President,
Export Sales

Velan Inc. is one of the world's largest manufacturers of industrial valves, and exports to 60 countries. Established in 1950 as a supplier of nuclear valves, the company applies the same expertise and strict quality control in the production of gate, check, knife gate and ball valves (manual and automated) in carbon, stainless or alloy steel, and in sizes ranging from 0.25 to 36 in. Velan ball valves feature a patented seat design which guarantees long cycle life, low operation torque, and bubble tight shut-off. Velan also offers stainless steel gate, globe and check valves for corrosive service, as well as specialty products, such as metal-seated ball valves, bellows seal valves, cryogenic and slurry valves.



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Canada

Veritas Seismic (1987) Ltd.

615 - 3rd Avenue S.W.
Calgary, Alberta
Canada T2P 0G6
Telephone: (604) 266-9200
Facsimile: (604) 266-9292
Contact: Judi MacDonald, Marketing
Manager

Veritas Seismic (1987) Ltd. is a comprehensive seismic processing service company. Established in 1975, the company has 76 professional and support staff. The company has gained worldwide expertise over the years, processing seismic data on all major continents and offshore reserves. Veritas is an acknowledged leader in seismic technology. Through ongoing in-house research and development programs and improved hardware capability and capacity, all 2D and 3D services provide the best data interpretation available.

Viking Pump Company of Canada Ltd.

661 Grove Avenue
Windsor, Ontario
Canada N9A 6M3
Telephone: (519) 256-5438
Facsimile: (519) 256-5070
Contact: David Booth, Vice President,
Export Sales

Viking Pump Company of Canada Ltd. manufactures rotary gear pumps, centrifugal pumps and regenerative turbine pumps. These products have been made in Canada since 1924 and are competitive in world markets. Rotary gear pumps are available to 750 USGPM pressures to 200 psi and viscosities to 1 000 000 ssu. Viking supplies the oil industry in Canada and the U.S. with pumps for gathering crude oil, trucking and transportation by ship and rail, and pipeline oil and oil products. Its products are used widely in oil and grease manufacturing.

Volcano Energy Systems Inc.

4300, promenade Beaudry
St-Hyacinthe, Quebec
Canada J2S 8A5
Telephone: (514) 774-5326
Facsimile: (514) 774-3887
Contact: Henri Reiher, General Manager,
Marketing and Sales

Volcano Energy Systems Inc. specializes in the manufacture of tubes, plate and structural steel, including boilers, pressure vessels, heat exchangers and tanks for the petrochemical industry, environmental works, incineration and various other industrial and commercial clients. Their equipment is exported to the U.S., Mexico and Africa.

Walker Steel Corporation

2210, 510 - 5th Avenue S.W.
Calgary, Alberta
Canada T2P 2R7
Telephone: (403) 264-4146
Facsimile: (403) 269-4224
Telex: 03824869
Contact: John Badger, Technical Services

Walker Steel Corporation has 100 employees, was established in 1979, and is now a major manufacturer of wellhead equipment, gate valves and swivel joints. The company exports to the U.S.

Walters Oil Tool Machine Ltd.

9924 - 29th Avenue
Edmonton, Alberta
Canada T6N 1A2
Telephone: (403) 462-4744
Facsimile: (403) 462-4746
Contact: Wally Walters, President

Walters Oil Tool Machine Ltd. has served the oil, gas and mining industries in Canada, the U.S., U.S.S.R., U.K., Asia and Africa since 1957. The company manufactures downhole tools, drill stem testing tools, shock subs, directional drilling tools, rotary subs and oil field accessories, core barrels, stabilizers and surface equipment.

Weatherford Oil Tool Co. Ltd.

14435 - 116th Avenue
Edmonton, Alberta
Canada T5M 3E8
Telephone: (403) 455-2176
Facsimile: (403) 452-6830
Telex: 037-2868
AnswerBack: wotcoedm
Contact: Dick Goebel, Assistant General
Manager

Weatherford Oil Tool Co. Ltd. has been serving the Canadian oil industry for more than 40 years and exports its products and services to all major oil producing countries. The company is Canada's largest tubular running service organization and has equipment and crews available in all active exploration and producing areas. Hydraulic power tongs are used for threaded connections. Comprehensive service packages are available which cover all of the tools and services needed to successfully run casing and completion strings. The company is an industry leader in technology related to the make-up and installation of oil field tubulars. This is important technology because casing and tubing strings constitute a high percentage of the total cost of well drilling. The company also manufactures a complete line of



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mechanical cementation products and other specialty tools used in oil and gas exploration and development.

Wega-D Geophysical Ltd.

100, 1301 - 8th Street S.W.
Calgary, Alberta
Canada T2R 1B7
Telephone: (403) 228-9448
Facsimile: (403) 228-6468
Telex: 03-825865
AnswerBack: intcan cgy
Contact: Werner J.M. Wenzil, President

Wega-D Geophysical Ltd. offers a new, patented electrical geophysical technology for oil and gas exploration. Using computerized pattern recognition, the technology determines the probability of finding hydrocarbons at a given location by comparing a template of deep geochemical alteration responses associated with hydrocarbon occurrence to nearby barren areas. The technology is useful for diagnosing the hydrocarbon potential of seismically defined structures or where seismic is non-diagnostic. The system has been successfully employed to locate new hydrocarbon reserves to depths of 3 500 m in Eastern Europe, the Middle East and Canada.

Weir-Jones Engineering Consultants Ltd.

1574 West 2nd Avenue
Vancouver, British Columbia
Canada V6J 1H2
Telephone: (604) 732-8821
Facsimile: (604) 732-4801
Contact: Keith Witney, Manager,
Engineering

Since 1971, Weir-Jones Engineering Consultants Ltd. has performed a number of investigations for and provided equipment and services to the oil and gas industry. These have primarily involved the measurement, display and analysis of stress, movement and vibrations in structures and machinery, including gas

pipelines and compressor stations. The company will conduct specialized tests, such as pipe-burst instrumentation, blow down tests and heat loss studies.

Structural monitoring systems have been designed, manufactured and installed on offshore structures, including Jackup leg load monitoring systems, as well as Arctic ice, geotechnical and structural systems. These systems have emphasized real-time engineering information displays for on-site information, as well as archival data for later analysis. Specialized instruments are also designed and manufactured to meet specific needs. The company has instrumentation development laboratories, including mechanical and electronic test facilities, as well as a full vibration and temperature environmental qualification facility.

Weldco Limited, Weldco-Beales Division

3202 Beta Avenue
Burnaby, British Columbia
Canada V3G 4K4
Telephone: (604) 294-2222
Facsimile: (604) 294-1292
Contact: Paul Cox, Vice President,
Marketing and Sales

The Weldco-Beales Division of Weldco Limited is an established organization with 45 years of attachment design and custom manufacturing experience. It offers an extensive line of material handling products for the resource industries throughout North America. The company will convert standard machines into unique problem solvers. For loaders and excavators, it manufactures a variety of work tools—from versatile quick coupler systems to a comprehensive line of buckets and material handling grapples.

Wellmaster Pipe and Supply Inc.

62 Goshen Street
Tillsonburg, Ontario
Canada N4G 4J1
Telephone: (519) 688-0500
Facsimile: (519) 688-0563
Telex: 064-73538
AnswerBack: wellmaster ils
Contact: James McKenzie, President

Wellmaster Pipe and Supply Inc. was established in 1949 and manufactures API oilwell casing and tubing couplings in sizes ranging from 2 3/4 in. EUE to 16 in. OD in 8 round and buttress threads. Grades manufactured are K-55, N-80, L-80, C-95 and P-110. The unique chucking arrangement in Wellmaster's manufacturing procedure assures perfect thread alignment. All Wellmaster couplings have their own serial number for complete traceability. The company has shipped their API couplings to Asia, South America, the U.K., Europe and the U.S.

Wells-Hall Fabrication and Construction Ltd.

6115 - 30th Street
Edmonton, Alberta
Canada T6P 1J8
Telephone: (403) 465-3391
Facsimile: (403) 465-3402
Contact: John Wells, President

Wells-Hall Fabrication and Construction Ltd. design and fabricate oil and gas wellhead production equipment. This equipment includes horizontal and vertical gas and oil separators, horizontal and vertical emulsion treaters, glycol dehydrators, and indirect fired heaters. The company and its 60 employees target the Canadian, U.S., U.S.S.R. and Asian markets.



Western Instruments, Inc.

100, 10411 - 178th Street
Edmonton, Alberta
Canada T5S 1R5
Telephone: (403) 484-2410
Facsimile: (403) 484-3386
Contact: M.B. Palynchuk, Sales Manager

Western Instruments, Inc., established in 1966, builds testing systems for the tube and pipe industry. The company is now recognized worldwide for its weld testing equipment and for its ultrasonic testing systems for tube and pipe. The function of this equipment is to test longitudinal resistance and fusion type welds for defects, lamination in the body, and drawing the profile of the weld to provide the welder operator with the location of existing problems in the product. Another product is the *Flash Gauge*. This unit measures the thickness of the tube around the weld area and draws a graphical representation of the weld profile to determine whether the trim condition is accurate to specification. All mechanical and electronic designs are on CAD systems and digital electronics with the integration of computers.

Westinghouse Canada Inc., Power Generation Division

110 King Street West
Hamilton, Ontario
Canada L8N 3K2
Telephone: (416) 528-8811
Facsimile: (416) 528-3415
Telex: 061-8832
AnswerBack: wecan
Contact: T. Beese, Manager, Power
Equipment Marketing

Westinghouse Canada Inc.'s Power Generation Division manufactures heavy industrial gas turbine generator sets (50 MW class) and steam turbine generators (less than 100 MW) for 50 and 60 Hz markets. Parts and service support for this equipment is provided worldwide.

Wheatley Canada Ltd.

4616 Manhattan Road S.E.
Calgary, Alberta
Canada T2G 4B4
Telephone: (403) 243-4236
Facsimile: (403) 243-4236
Telex: 03-821521
AnswerBack: wheatly cgy
Contact: Jim Keating, Material Supervisor

Wheatley Canada Ltd. has been operating in Canada since 1947. It operates a manufacturing facility and a pump fabrication facility. In 1988, the company was recognized as the first and only Canadian manufacturer of horizontal swing check valves registered under the CSA Z299.3 quality program and the ISO 9003 quality program. In 1990, it expanded its quality program to include the plunger pump product line under CSA Z299.3. The company offers a broad range of quality valve and pumping products. A line of 36 low profile plunger pumps are available to fit an endless list of pumping applications, including glycol systems, hydraulic systems, CO₂ injection, salt water injection and disposal, LPG storage and pipelines, crude oil transfer and high-pressure boiler feed pumps.

Wire Rope Industries Ltd.

5501 Trans Canada Highway
Pointe Claire, Quebec
Canada H9R 1B7
Telephone: (514) 697-9711
Facsimile: (514) 697-6779
Contact: Kevin Tellier, Manager,
International Sales

Wire Rope Industries Ltd. was established in 1886. The company is the largest wire rope manufacturer in Canada and it operates two plants and 20 service centres in Canada and the U.S. The company has one of the most extensive product lines in the business and manufactures a full range of ropes for oil drilling. The company is active on all continents.

Zeton Inc.

4129 Harvester Road
Burlington, Ontario
Canada L7L 5M3
Telephone: (416) 632-3123
Facsimile: (416) 632-0301
Telex: 061-8678
AnswerBack: ZETON INC BURL
Contact: David Beckman, Vice President

Zeton Inc. provides automated pilot plant systems to oil refining, petrochemical and chemical clients worldwide. The company was formed in 1986 and has earned a reputation for building pilot plants and other systems on a small scale to a high level of quality and operability. The company provides a full turnkey service in the provision of its pilot plants and other small scale, skid-mounted systems, including design studies, detailed engineering, manufacture, installation, commissioning, start up and operator training. Zeton also provides field service for existing plants. The majority of Zeton's products are exported. It is represented by agents in more than 30 countries.

Zimmark Inc.

4380 South Service Road
Burlington, Ontario
Canada L7L 5Y6
Telephone: (416) 632-5410
Facsimile: (416) 632-5171
Contact: Lowell A. Wilson, President

Zimmark Inc. has automated the procedures for oil clarification and recovery. Zimmark has installed systems in every major rail yard in Canada and in rail yards in the U.S. and the Far East. Transit companies, marine/naval shipping, and countries producing electric power with diesel generators are considering the system. Significant cost savings are realized and toxic waste volumes are reduced. The reclamation process recovers 90 percent of used lube oil for continued use and involves laundering the



oil with the help of a chemical coagulant, heat and time. After dirt and metal contaminants have been removed, the recycled oil is blended with new oil at a ratio of 1:4. The process does not remove additives that are still active. Zimmark will install, operate and manage the system, working closely with shop management personnel. The system produces detailed analysis and quality assurance reports.



NUCLEAR POWER EQUIPMENT MANUFACTURERS AND SERVICES



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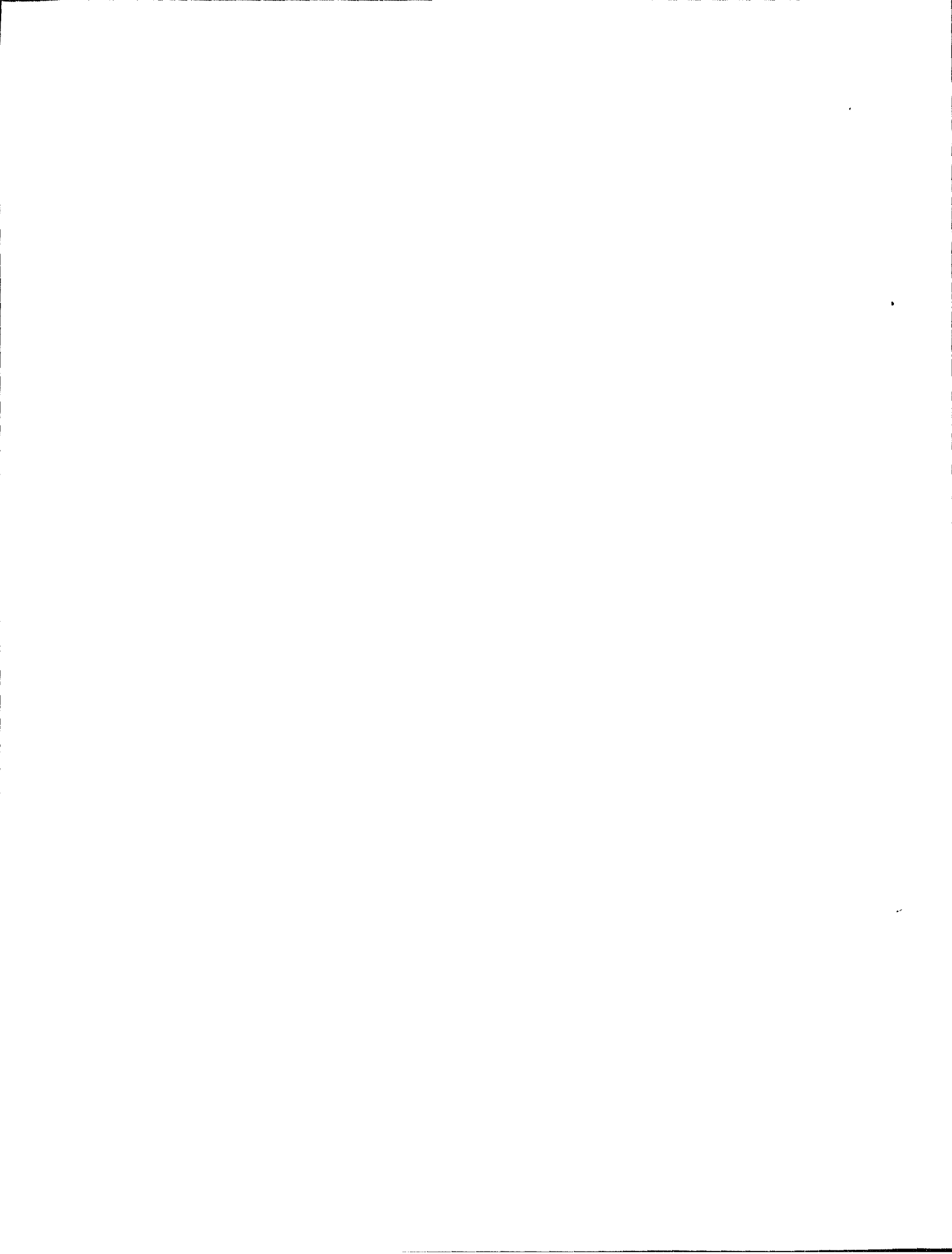


Introduction

The Canadian nuclear industry is a major contributor to the safe, reliable and economical generation of electricity in Canada. The Canadian nuclear industry alone contributes \$4.5 billion annually to the economy and generates 28,000 jobs directly and 60,000 jobs indirectly. Nuclear energy accounts for 15% of Canada's total electricity supplies. In the province of Ontario, nuclear energy provides 50% of generating capacity. Atomic Energy of Canada Limited leads the world in the development of clean, safe and reliable electrical energy systems. CANDU nuclear power plants are among the most advanced and best performing reactors ever designed. CANDU's have been consistently rated high in the list of almost 300 nuclear reactors world-wide. As of September 30, 1991, New Brunswick Power's, Pointe Lepreau nuclear generating station achieved a 97.5% capacity factor and ranked first in the world with a lifetime reactor performance of 90.9%. AECL's dynamic research team has engineered major technical breakthroughs in the mining sector and is helping to ensure the CANDU reactors continue to operate at peak efficiency. Canada is also a major producer of uranium, accounting for approximately 30% of the Western World's supply.

This directory provides a brief summary of the capabilities of Canadian firms active in the manufacture and supply of nuclear equipment.





Alphabetical Listing of Companies

Alfa-Laval Ltd.
Ascoelectric Limited
Atlantic Nuclear Services Ltd.

Bailey Canada Inc.
B.C. Instruments Inc.
Blenkhorn and Sawie Ltd.

CAE Electronics Ltd.
Canada Alloy Castings Limited
Canada Forgings Inc.
Canadian Fusion Fuels Technology Project
Canatom Inc.
CDS Research Ltd.
Centre for Nuclear Engineering, University of Toronto
College Tool and Die
Contro Valve Inc.
CTS of Canada, Limited

DeVilbiss Air Compressor Products
Dominion Bridge
Donlee Precision
Dresser Canada Inc., Valve & Controls Canadian Operations
Drummond Welding & Steel Works Limited

Ellett Industries Limited
Energy Management Systems (EMS/DACS)
Exotemp Ltd.

FAG Bearings Ltd.
Farris Industries Canada
Fisher Controls Company of Canada Ltd.
Foxboro Canada Inc.

GBF Forging Specialists Inc.
GEC Alsthom Electromechanical Inc.
Glitsch Canada Ltd.

Hayward Gordon Ltd.
Hitachi Canadian Industries Ltd.
Hoke Controls Limited
Hooper Welding Enterprises Ltd.
Howden Group Canada

Ingersoll Rand Canada Inc.
Invar Manufacturing Ltd.
ITT A-C Pump Canada

ITT Barton Instruments

John T. Hepburn, Limited

Keystone Canada Inc.
Koch Engineering Company Ltd.
Kubota Metal Corporation, Fahramet Division

Metacor Steel Products
MIL Davie Inc.
Milton Roy Industries Ltd.
MPB Technologies Inc.

NEI Parsons Canada Limited
Neles-Jamesbury Ltd./Ltee.

Ontario Hydro

Proquip International

Ralfor Plus Inc.
Ritepro Inc.
Robert Mitchell Inc., Douglas Bros. Industrial Division
Rosemount Instruments Ltd.

Sandvik Canada Inc.
Scintrex Ltd.
Shawflex Inc.
Sihl Pumps Ltd.
Spar Aerospace Limited
Spectrum Engineering Corporation Ltd.
Stern Laboratories Inc.
Sulzer Bingham Pumps Inc.

Taylor Forge of Canada Corporation
Trench Electric

Unifin International Inc.
Union Pump (Canada) Ltd.

Valpro Inc.
Velan Inc.

Willowglen Systems Ltd.

Zircotec Precision Industries Inc.



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Canada



Company Profiles

3-L Filters Limited

427 Elgin St. N., P.O. Box 371
Cambridge, Ontario
Canada N1R 5V5
Telephone: (519) 621-9949
Fax: (519) 621-3371
Contact: Dr. Bob Goel, Chief Engineer

For over 25 years, 3-L Filters has designed, engineered, built and serviced filtration systems utilizing pressure vessel technology for refineries, pipelines, nuclear power plants and numerous industrial applications. From its original position as a petroleum industry supplier, the company has extended its expertise into filtration for waste water treatment, coolants, solvents, lubricants and gases. As well the company engineers and fabricates ion exchangers, vapour recovery driers, filters vessels and other process equipment for nuclear power plants in several countries.

Products: Liquid, gas filters, filter separators, gas coalescers, ion exchange columns, air, gas dryers strainers, process vessels.

Alfa-Laval

101 Milner Ave.
Scarborough, Ontario
Canada M1S 4S6
Telephone: (416) 299-6101
Fax: (416) 299-6476
Contact: Mr. Lars Warlin, General Manager, Thermal Division

Alfa-Laval AB, headquartered in Lund, Sweden, is a large, world-leading engineering group with business operations in 150 countries and over 20,000 employees worldwide. Business activities are in three main areas: Food, Industry and Agri. In Canada, Alfa-Laval is located in modern 120,000 sq. ft. manufacturing facilities and has 200 employees.

Alfa-Laval Thermal's Business Area is the design and manufacture of plate heat exchangers, spiral heat exchangers, brazed heat exchangers and strainers for chemical process, heating and ventilation, steel and power generation industries. Products include plate heat exchangers for Nuclear Steam Supply System (NSSS) including emergency core coolers, moderator coolers and heavy water coolers; plate heat exchangers for Balance of Plant including transformer oil coolers, lube oil coolers, central cooling systems manufactured to CSA Z299.3, CSA B51-M and ASME Section VIII, Div. 1. standards. Alfa-Laval has the ASME N-Stamp (from Sweden)

Ascoelectric Limited

10 Airport Rd., P.O. Box 160
Brantford, Ontario
Canada N3T 5M8
Telephone: (519) 758-2700
Fax: (519) 758-5540
Contact: D.H. Laackman, Manager Sales & Marketing

Ascoelectric Limited is a major Canadian manufacturer of control products used for the automation of machinery and processes as well as the control of electrical power. The company is based in Brantford, Ontario, with a coast-to-coast network of distributors as well as district sales offices. Ascoelectric has been in operation since 1965.

Products: 2, 3, and 4-way solenoid valves; pressure & temperature switches; fluid power controls; air-preparation equipment; linear drives (pneumatic & hydraulic); automatic transfer switches; automatic transfer & bypass isolation switches; remote control switches; power control systems; dry pipe sprinkler systems.

Atlantic Nuclear Services Ltd.

P.O. Box 1268, Station A, 500 Beaverbrook Court
Fredericton, New Brunswick
Canada E3B 5C8
Telephone: (506) 458-9552
Fax: (506) 451-0525
Contact: C. Keith Scott, President

Atlantic Nuclear Services was founded in 1983 with its head office located in Fredericton, New Brunswick. The initial area of business was reactor safety analysis and design for CANDU power reactors. The company has expanded to offer services generally in nuclear science and engineering. The current staff complement is supplemented by joint venture arrangements with selected Canadian and international companies. Atlantic Nuclear has dedicated scientists, engineers, and technologists with project experience in a wide range of areas including: safety and licensing requirements, thermalhydraulics and heat transfer, reactor physics and core analysis, fuel engineering and testing, probabilistic risk assessment, environmental pathway models, instrumentation and control, data acquisition, software engineering and quality assurance.

Atlantic Nuclear's client base includes New Brunswick Power and the Pt. Lepreau NGS, Hydro Quebec and the Gently-2 NGS, Ontario Hydro, AECL - CANDU Ops, AECL - Chalk River Laboratories, Atomic Energy Control Board, IAEA, and the Canadian Space Agency.



Bailey Canada Inc.

860 Harrington Court
Burlington, Ontario
Canada L7N 3N4
Telephone: (416) 639-8840
Fax: (416) 639-8639
Contact: Richard P. West, Marketing
Manager, Utilities Industries

Bailey Canada, established in 1921, is a world leader in the development of state-of-the-art instrumentation, controls, and distributed systems for the process, utility, and industrial power markets. Bailey Canada has considerable domestic and international utilities experience with units up to 600 MW. Applications include conventional thermal plants, combined cycle plants, cogeneration plants, turbine control, and flue gas desulphurization. Projects range from small retrofits and upgrades through to complete new control systems. Bailey's comprehensive services include engineering, project management, applications engineering, implementation, testing, commissioning, and training.

Products: NETWORK 90 and INFI 90 microprocessor-based control systems, Operator Interface Stations, Application Software Packages, Transmitters, Drives, Sensors

B.C. Instruments

P.O. Box 430, Proctor Road
Schomberg, Ontario
Canada L0G 1T0
Telephone: (416) 939-7323
Fax: (416) 939-8206
Contact: Bruce Conzelmann

B.C. Instruments manufactures small to medium size precision machined components for the Aerospace, Electronics and Nuclear Industry. We have developed extensive experience in machining complex thin wall investment castings to close tolerances. For the Nuclear Industry we manufacture a variety of parts and assemblies including Nuclear Class 1

Adaptors, journal rings, thimble & guide tube assembly, thermowell assembly and others.

Blenkhorn and Sawie Ltd.

P.O. Box 3010, 100 Grantham Avenue
St. Catharines, Ontario
Canada L2R 7B9
Telephone: (416) 684-9251
Fax: (416) 684-3336
Contact: Mr Pat Dowds

Blenkhorn and Sawie Limited is a diversified manufacturer of electrical/electronic/pneumatic control assemblies and medium voltage range switchgear up to 44 KV in both metal enclosed and metalclad application. The company also specializes in design/build control systems for small hydro applications up to 10 MW.

Products: medium range switchgear to 44 KV, control systems - small hydraulic stations, plc systems

CAE Electronics Ltd.

8585 Côte de Liesse
St-Laurent, Québec
Canada H4T 1G6
Telephone: (514) 341-6780 ext. 2296
Fax: (514) 341-7699
Contact: Terence J Kerwin, Manager,
Marketing-Energy Systems

This Montreal company is a leading designer and manufacturer of supervisory control and data acquisition systems for nuclear and fossil fuel-fired electric power generating stations and electric substations. CAE provides control systems for electric power distribution and energy management systems, oil and gas pipelines and a variety of other applications, including military-qualified ship-board integrated machinery control systems. The company also produces control room simulators for nuclear power generating stations, to train personnel in responding to all normal and abnormal occurrences

which could take place in a nuclear power plant. CAE is also a world leader in flight simulation. It dominates the commercial flight simulator and training devices market worldwide, with sales to commercial airlines, aircraft manufacturers, flight training establishments and aviation agencies. What's more, CAE Electronics continues to make inroads globally into the defence market with simulators for fixed-wing aircraft and helicopters. The company has achieved world leadership in the development of airborne magnetic anomaly detection systems for both fixed-wing aircraft and helicopters used by military forces for anti-submarine patrol activities. CAE Electronics is also a major manufacturer of air traffic control system equipment. The company provides control systems for the remote manipulator arm of NASA's manned space shuttle and training devices for the European HERMES manned space flight program. Almost half of the company's 3400 employees are scientists, engineers and technicians.

Canada Alloy Castings Ltd.

529 Manitou Drive
Kitchener, Ontario
Canada N2C 1S2
Telephone: (519) 895-1161
Fax: (519) 895-1169
Contact: Ben A. Bjorkenstam

Canada Alloy Castings Ltd. manufactures castings for customers at the leading edge of their industries. We specialize in pressure retaining castings for the pump and valve industry. Canada Alloy Castings Ltd. also possesses considerable experience and expertise in producing castings for hydro turbine manufacturers. Our more than 82,000 sq.ft. of production space, modern equipment and highly qualified personnel provide the measure of efficiency necessary to meet the most demanding standards of the ASTM, ASME, CSA and ISO codes.

Products: steel and stainless steel sand molded castings up to 15,000 lbs. ship weight



Canada Forgings Inc.

P.O. Box 308, 130 Hagar Street
Welland, Ontario
Canada L3B 5P8
Telephone: (416) 735-1220
Fax: (416) 735-6992
Contact: John E. Mires

Canada Forgings was founded in 1912; the company employs some 180 people in two separate facilities located in the city of Welland, Ontario. A large percentage of the company's sales are made to the aircraft, aerospace and defense markets in both Canada and the United States. The company also serves the following industries: power generation (nuclear and fossil), energy exploration and pipeline, mass transit, off-road equipment, shipbuilding, steelmaking, mining, equipment manufacturing, etc.

Products: Canada Forgings produces open die forgings up to 30,000 lbs. in weight, impression die forgings up to 450 lbs. and contoured or rectangular seamless rolled rings up to 120" in diameter; these are produced from a complete range of carbon, alloy, and stainless steel grades. The company meets the following quality standards: National Defense Z2993; Military MIL-I-45208; Commercial AQAP4.

Canadian Fusion Fuels Technology Project

2700 Lakeshore Road West
Mississauga, Ontario
Canada L5J 1K3
Telephone: (416) 823-0200
Fax: (416) 823-8020
Contact: Allan Meikle

The Canadian Fusion Fuels Technology Project (CFFTP) was established in 1982 as one of Canada's major fusion initiatives. CFFTP's mission is to extend Canada's fusion capabilities by developing and applying technologies to fusion and related projects worldwide. CFFTP is a technology

focused organization which builds on internationally recognized strengths in the management of tritium, advanced materials, remote handling and nuclear facilities safety and design. By concentrating on a few strategically selected technologies, developed from Canada's nuclear program, CFFTP has established an international reputation for its capabilities. The project works in close cooperation with industry, universities and international fusion projects to develop processes, systems, hardware and services to serve the fusion community and related facilities.

Products: CFFTP will design, construct and commission systems and facilities for customers engaged in fusion and fusion fuels development and in projects using tritium or tritium-related technology. We can supply equipment and materials, arrange for the supply of fusion fuels, and take back used tritium in gaseous and liquid forms. CFFTP offers services based on demonstrated expertise in these applied technology areas: fusion fuel systems and laboratory facilities for fusion reactors burning tritium; fusion fuel storage and handling systems and laboratory facilities; fusion reactor exhaust gas cleanup systems; accelerator active gas handling systems; fusion reactor and breeder blanket technology; remote handling systems for fusion reactor maintenance and operation; safety assessment and equipment; environmental studies for fusion establishments; radioactive waste management.

CANATOM Inc.

2020 university Street
Montreal, Quebec
Canada H3A 2A5
Telephone: (514) 288-1990
Fax: (514) 289-9300
Contact: T. Gellatly, Vice President and
Manager, Operations.

Canatom Inc. is Canada's largest independent nuclear engineering, procurement, construction and project management company. Canatom was founded in 1967 by three leading Canadian consulting companies: Montreal Engineering Company Ltd., Shawinigan Group Inc. (now SNC-Lavalin Inc.) and SNS Enterprises Ltd. Canatom's operations are backed by the diversified expertise of its parent companies, who have a combined staff exceeding 10,000 employees. Canatom specializes in nuclear, civil, mechanical and electrical engineering design and analysis, and in the Balance of Plant (BNSP) and Balance of Plant (BOP) engineering services for nuclear power stations, and provides similar services for the construction of heavy water plants. Other services provided by Canatom included prudence auditing, technical review, feasibility studies, site investigations and evaluations, plant commissioning and operations assistance.

CDS Research Ltd.

Suite 100, 565- 17th Street
West Vancouver, B.C.
Canada V7V 3S9
Telephone: (604) 925-2860
Fax: (604) 925-2861
Contact: Dr. Z. Meratla, Senior Consultant

CDS Research Ltd. is a consulting company based in Vancouver, B.C. specializing on major energy projects including nuclear fission primary cooling, development work on nuclear fusion and extensive involvement on world class LNG facilities. In the nuclear industry the



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Following services are provided: advanced condition monitoring and diagnostic for electrical motors in critical service, failure analysis and remedial actions, modeling for seismic analysis, hazard analysis and remedial actions, inspection of equipment fabrication and testing, development and implementation of proprietary quality assurance programs. The company has developed in-house extensive commissioning procedures for major equipment.

Centre for Nuclear Engineering

University of Toronto
184 College Street
Toronto, Ontario
Canada M5S 1A4
Telephone: (416) 978-2127
Fax: (416) 978 4155
Contact: Professor B. Cox

The Centre for Nuclear Engineering provides courses and performs research in various aspects of nuclear engineering. The main areas of expertise lie in the behaviour of reactor materials in high radiation fields; behaviour of fission products (especially iodine) under reactor accident or waste storage conditions; and the use of plasmas for protective coating application and cutting of irradiated materials. Members of the Centre also provide consulting services in these and other areas of nuclear technology.

College Tool and Die

3845 Nashua Drive
Mississauga, Ontario
Canada L4V 1R3
Telephone: (416) 677-5130
Fax: (416) 677-4426
Contact: Mr. Micah Fletcher

College Tool and Die manufactures a variety of precision components for the nuclear and commercial industries. The company currently has a quality control system approved to Z299.3-85 as well as MCCR registration (#OQP-309).

Products: Machined components for CANDU NGS, mining industry, military, etc...

Contro Valve Inc.

11-B Place du Commerce
Brossard, Quebec
Canada J4W 2T9
Telephone: (514) 465-3330
Fax: (514) 671-0988
Contact: Michael Wilson, President

Contro Valve Inc. is a Canadian owned corporation which assembles and tests control valves for the Masoneilan division of Dresser Industries. Established in 1977, Contro Valve offers a complete line of Canadian assembled control valves for all process industries. Contro Valve Inc. is a major valve supplier to the Canadian Patrol Frigate Program. As well, "Balance Of Plant" near nuclear valves are supplied to the Canadian nuclear industry.

Products: Globe, ball and butterfly control valves, and process control equipment to complete small process control loops.

CTS of Canada Limited

80 Thomas Street
Streetsville, Ontario
Canada L5M 1Y9
Telephone: (416) 826-1141
Fax: (416) 858-9058
Contact: Tony Colledge, Plant Manager

CTS of Canada is a wholly-owned subsidiary of CTS Corporation, Elkhart, Indiana, (est. 1896) a publicly owned company listed on the New York Stock Exchange with net sales exceeding US \$250 million annually. CTS of Canada is located in a modern 110,000 sq. ft. facility, employs 250 people. CTS is engaged in the design, manufacture, and service of custom electrical power conversion equipment for industrial, military and scientific applications. Products manufactured are converters, rectifiers, inverters, transformers and transfer

switches. CTS equipment is qualified to all nuclear, MIL and commercial standards. Complimenting the company's sound engineering practices and effective production systems is a Quality Control Program meeting CSA Z299.2, 3 and 4 requirements.

DeVilbiss Air Compressor Products

50 Wood Street
Barrie, Ontario
Canada L4M 6K3
Telephone: (705) 728-5657
Fax: (705) 739-5971
Contact: Eric Fuller

DeVilbiss is a Canadian manufacturer of high quality air compressor products. We export all over the world with principal markets in the U.S. and France, as well as Canada. The company is a division of ITW Canada Inc, an Illinois Tool Works Company, U.S.A.

Products: reciprocating, air cooled, air compressors from 1/4 to 40 HP; and related accessories.

Dominion Bridge

500 Notre Dame Street
Lachine, Québec
Canada H8S 2B2
Telephone: (514) 634-3551
Fax: (514) 631-2668
Contact: Denis Robert, Manager, Sales

Dominion Bridge is Canada's driving force in construction, offering a wealth of associated expertise including turnkey capability. And we are the nation's largest fabricator of steel. Since 1882, the name Dominion Bridge has been synonymous with technical excellence, quality products and services, and financial strength. Our capabilities include project and construction management, specialty engineering, turnkey projects large and small. The versatility of our platework and engineered products make Dominion



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Technology Canada

Industrie, Sciences et
Technologie Canada



Bridge unique in the world of steel fabrication. And, as Dominion Bridge technological excellence grows, so do our horizons. With a vast range of capabilities to satisfy engineering, fabrication, procurement and construction needs across Canada and around the world.

Products: Structural steel for industrial plants, hotels, office towers, sports complexes, bridges. Mechanical components such as portainer cranes, gates and penstocks. Platerwork and we have participated in the CANDU program since its inception by supplying components such as: pressurizers, calandrias, E.C.C. vessels, degasser condensers, fueling machines, gadolinium vessels, feeder tubes, airlocks, heavy water towers.

Donlee Precision

9 Fenmar Drive
Toronto, Ontario
Canada M9L 1L5
Telephone: (416) 743-4417
Fax: (416) 746-8998
Contact: Wayne Bacik, Sales Manager

Donlee Precision specializes in the production of precision tubular and shaft type components/assemblies in size ranges from 6 inches to 10 feet in length and up to 24 inches diameter. A full complement of capabilities include gun drilling and trepanning, NC turning and boring, NC milling, NC grinding including thread/ball screws, engineering, CAD/CAM, QC/QA and NDE, procurement and processing. Gear and spline cutting are provided by a sister company. The company has operated since 1966.

Products: Typical products produced include gas turbine engine power, compressor and propellor shafts, helicopter rotor masts and grips, hydraulic cylinders, pistons and struts, and axles. Donlee Precision also produces various critical nuclear components for the CANDU system such as end fittings, various flow elements/meters, fit machine components, hubs, flange, as well as larger assemblies.

Dresser Canada Inc., Valve & Controls Canadian Operations

5010 North Service Road
Burlington, Ontario
Canada L7L 5R5
Telephone: (416) 335-3529
Fax: (416) 336-7628
Contact: Ray Briggs, General Manager

Dresser Canada Inc., Valve & Controls Canadian Division manufactures and distributes a full range of Masonite® automated process control valves, complete with all associated instrumentation. A full line of safety and safety relief valves are also supplied under the brand names of Consolidated®, Hancock® and Dewrance®. The Burlington facility is certified to manufacture products to the following quality programs: ISO 9002, CSA Z299.2 (1985), and ASME Sections I, III, and VIII.

Products: automated process controls valves, valve instrumentation, safety and safety relief valves, liquid level controllers.

Drummond Welding and Steel Works Ltd.

700 Talon
Longueuil, Quebec
Canada J4G 1P7
Telephone: (514) 526-4411
Fax: (514) 679-1686
Contact: Maxime Davila, Vice President,
Custom Sales Fabrication

Established in 1950, Drummond Welding and Steel Works is a manufacturer of fabricated stainless steel, alloy and carbon steel structures, pressure vessels, tanks and general plate work for industry. The company is located in a 65,000 sq.ft. well equipped facility, located close to rail, road, sea and air transportation facilities.

Products: Typical manufactured products are pressure vessels, propane tanks, chemical storage tanks, autoclaves, distillation towers, penstocks, ductworks,

spheres and miscellaneous structural steel work.

ELLETT Industries Ltd.

1575 Kingsway Avenue
Port Coquitlam, British Columbia
Canada V3C 4E5
Telephone: (604) 941-8211
Fax: (604) 941-7669
Contact: R.D. (Bob) Gill

ELLETT is Canada's premier manufacturer of heat exchangers and pressure vessels in titanium, zirconium, stainless steel and nickel alloys. It is Canadian owned and has been operated for over 7 decades.

Products: custom design and fabrication of process equipment; heat exchangers, pressure vessels, towers, pipe and fittings, jacketed kettles, reactors, autoclaves, brew kettles, coils and storage tanks; manufacturers of valves in titanium, zirconium, tantalum and nickel alloys; sales and distribution of rolled and welded stainless steel and titanium pipe and fittings; sales and distribution of titanium mill products.

Energy Management Systems (EMS/DACS)

#1-225 Traders Blvd. East
Mississauga, Ontario
Canada L4Z 2E5
Telephone: (416) 890-1233
Fax: (416) 890-7630
Contact: Paulette Greig

Systems integrators of environmental and automation control systems. The company produces analysis control systems for a variety of industries. Manufacturer of environmental and process control components interfacing electrical devices such as heaters, motors and meters to high logic controllers.



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Technology Canada

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Canada

Exotemp Ltd.

320 Boundary Road, unit 130, R.R. #4
Pembroke, Ontario
Canada K8A 6W5
Telephone: (613) 735-3996
Fax: (613) 735-3814
Contact: Mr. Dobbs, President

Exotemp Ltd. is a Canadian owned manufacturer of systems which actively cool the human body exposed to extremely hot environments. Workers exposed to conditions of high ambient temperatures and/or who need personal protective clothing because of other threats can work longer and more comfortably because Exotemp systems can keep their body core temperatures at normal levels. Hot entry work and valving operations are only two examples of radiation worker applications in the nuclear industry. Exotemp body cooling systems have been proven effective by a number of independent laboratories.

Among Exotemp's products are cooling undergarments including shirts, pants, hoods in polyester/cotton or fire retardant Nomex knit fabrics. The cooling units to feed garments with chilled water can be protable or umbilical style, and can derive cooling from ice or thermoelectric or mechanical refrigeration. These products are sold into industry under the tradename CORE-CONTROL by Mine Safety Appliances Company.

FAG Bearings Ltd.

National Sales Division
5965 Coopers Avenue
Mississauga, Ontario
Canada L4Z 1R9
Telephone: (416) 890-9770
Fax: (416) 890-9779
Contact: Grant F. Wilnot, Nuclear Industry Sales

This company's manufacturing facility, located in Stratford, Ontario. All types of automotive and aerospace bearings are manufactured on these premises. The national sales division located in Mississauga, Ontario is the sole representative for North America of FAG Radiation Measuring Products in Germany.

Products: nuclear fuelling machine bearings; radiation measuring instruments

Farris Industries Canada

Hwy. #2 & Shaver St.
Brantford, Ontario
Canada N7T 5T3
Telephone: (519) 756-4800
Fax: (519) 756-4016
Contact: Mike Whiston, Sales Manager

Farris Industries Canada manufactures spring loaded and piloted operated pressure relief valves for use in the refinery, petrochemical, nuclear power, pharmaceutical, processing mining and pulp and paper industries. These valves are safety devices designed to prevent the over pressure of vessels, pipe lines and other critical equipment. Valves are available in sizes ranging from small 1/2" models with screwed connections to large flanged models with up to 20" inlet connections. Pressures of up to 10,000 PSI can be accommodated

Fisher Controls Company of Canada Limited

1039 Dundas Street, P.O. Box 578
Woodstock, Ontario
Canada N4S 7Z6
Telephone: (519) 539-9892
Fax: (519) 537-2479
Contact: Jerry Balcom

Established in 1956, Fisher Controls manufactures process control equipment for a broad range of industries, including fossil and nuclear generating stations. The equipment manufactured ranges from automatic control valves to large Distributed Control Systems. Several designs specific to CANDU plants, such as bellows-sealed valves, are manufactured here.

Foxboro Canada Inc.

4 Lake Road
Dollard-des-Ormeaux, Quebec
Canada H9B 3H9
Telephone: (514) 421-4210
Fax: (514) 421-8057
Contact: Ralph Tozzi

Foxboro is a leading worldwide supplier of products and related services for the intelligent automation of the industrial process. Its customers include the chemical and petrochemical, oil and gas, pulp and paper, food, pharmaceutical, mining and metals, electric power, textile, and water and wastewater industries. Foxboro Canada Inc., founded in 1933 as a small instrument assembly operation, today maintains headquarters in the Montreal area and sales, service and engineering centres in eight cities from coast to coast. These offices are staffed with engineers who are experienced in advanced industrial processes and equipment and who have the support of Foxboro experts worldwide.

Products: Foxboro products range from electronic and pneumatic instruments to complete process control systems. They are



used to measure and control the condition of process variables (flow, pressure, temperature, liquid level) and the composition of materials being processed (pH, ORP, conductivity, resistivity).

Services: Foxboro offers extensive engineering, education, and field services that include: system project management; field application engineering; installation & startup assistance; commissioning; maintenance & repair; training; and systems demonstration centres (Montreal, Toronto, Calgary).

GBF Forging Specialists Inc.

P.O. Box 996, 280 Henry St.
Brantford, Ontario
Canada N3T 5S7
Telephone: (519) 758-8100
Fax: (519) 756-2041
Contact: Mr. John Ottewell

GBF Forging Specialists manufacture open die forgings in carbon, alloy and stainless steels. Size capability is up to approximately 25000 lbs. at the rough machined state. The company has in-house facilities for machining, heat-treating and non-destructive testing (including immersion ultrasonics). Quality control system meets CSA Z299.2 and ASME NCA-3800.

Products: bars, shafts, hollow shafts, rings, flanges, discs and special shapes.

GEC Alsthom Electromechanical Inc.

1500 Vandal Street
Tracy, Quebec
Canada J3R 1W7
Telephone: (514) 746-6500
Fax: (514) 746-6510
Contact: Paul Hudon, Vice President

The company, formerly Marine Industries Limited, was established in Canada in 1937 and is a leading manufacturer of power generation equipment for hydroelectric, thermal and nuclear power plants. The company provides its customers with a comprehensive service for design, manufacturing, installation, commissioning and maintenance for new equipment and a complete range of services for rehabilitation of existing equipment. The company has joint technology agreements with several divisions and subsidiaries of GEC Alsthom.

Products: Hydro Turbines: bulb, Francis, Kaplan, Pelton, propellor, pump-turbines; Hydro Mechanical: butterfly valves, spherical valves, ring gates; Hydro Generators: for bulb units, large generating units, reversible pump-turbine units; Electrical Machines: synchronous condensers, large motors; Turbo Generators: for medium size steam turbine, gas turbine units; Nuclear Components: equipment for CANDU system, reactor units.

Glitsch Canada Ltd.

18 Dallas Street, P.O. Box 880
Uxbridge, Ontario
Canada L9P 1N2
Telephone: (416) 852-3381
Fax: (416) 852-7821
Contact: Michael McGuire

Glitsch Canada Ltd. has been established since 1950, servicing Canadian and world wide process industries. Glitsch is a world leader in design, manufacture, installation and troubleshooting of distillation equipment.

Products: fraction trays: Ballast™, Nye™, Sieve, Bubble, Dual Flow; tower packings (random): Cascade Mini Rings, Ballast Ring; (structured): Gempak, Glitsch Grid

Services: Iso-Scanning, Glitsch Field Services (installation), engineering services for distillation equipment and troubleshooting.

Hayward Gordon Ltd.

7505 Bath Road
Mississauga, Ontario
Canada L4T 1L3
Telephone: (416) 677-6400
Fax: (416) 677-4159
Contact: John Hayward

Hayward Gordon Limited is a Canadian pump and mixer manufacturer with head office, warehouse and production facilities in Mississauga, Ontario. Hayward Gordon is also engaged in the sales and distribution of a variety of other manufacturers' pumps and environmental products. Our plant location gives ready access to all forms of shipping and to two major U.S. border clearance points, at Buffalo and Detroit. Hayward Gordon employs approximately sixty-five people of which 25% are professional engineers or technicians. The balance are from business accounting, manufacturing and clerical backgrounds. This "engineering" bias supports our engineered design and sales



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approach to the industrial pump market. We are presently actively marketing our specialty horizontal and vertical pumps in most major centres in North America.

Products: seal-less canned motor pumps; centrifugal process pumps

Hitachi Canadian Industries Ltd.

826 - 58th Street East
Saskatoon, Saskatchewan
Canada S7K 5Z4
Telephone: (306) 242-9222
Fax (306) 242-9211

Contact: Joe Vidal, Administration Manager

Hitachi Canadian Industries Ltd. (HCI), a subsidiary of Hitachi Ltd., Japan, was established in 1988. HCI produces large size fabrications and machined components for industrial power generation equipment. Components are manufactured for steam turbines, gas turbines, heat exchangers, electrical switchgear equipment and other power generation equipment.

Products: castings for 60 to 400 MW steam turbines; castings for 100 to 150 MW gas turbines; pressure vessel components for 121 to 362 kV gas circuit breakers; pressure piping; heat exchangers for power generation systems, heavy welded structures.

Hoke Controls Limited

2240 Speers Road
Oakville, Ontario
Canada L6L 2X8
Telephone: (416) 827-9807
Fax: (416) 827-4507
Contact: Gary Shea, General Manager

Hoke Controls manufactures high quality, precision instrumentation and process control products. The current product offering includes a complete range of valves, including the best metering valves available. Hoke also manufactures inch and metric "Gyrolok" two ferrule flareless tube fittings in sizes to 1"/25mm, instrument manifolds and sampling cylinders. These products are available in a variety of materials including brass, carbon steel, 316 stainless steel, monel, hasteloy, inconel and a variety of other duplex stainless steels. In addition Hoke can supply leak detection fluid, teflon tubing, valves, fittings and purges, and pressure gauges.

Hooper Welding Enterprises Ltd.

1390 Advance Road
Oakville, Ontario
Canada L6L 6L6
Telephone: (416) 827-2600
Fax: (416) 827-1600
Contact: Jim Wright, General Manager

The company designs and fabricates TEMA Shell and tube heat exchangers and ASME Coded pressure vessels. Code and non-code engineered steel fabrication in alloy and carbon steel is fabricated in a new 24000 sq. ft. plant with 28 feet under hook and 100 ton handling capacity. Established in Canada since 1952, the company now has the quality control CSA Z299.3 for applications in sections of the nuclear industry.

Howden Group Canada Limited

1510 Birchmount Road
Scarborough, Ontario
Canada M1P 2G6
Telephone: (416) 752-7310
Fax: (416) 752-0417
Contact: Bernard S. Chamberlain, Vice President, Turbine Division

Howden Group Canada Limited has expanded its manufacturing facility in Canada since 1956 to be one of the largest and most complete machining and fabricating plants in Canada. It is a leading supplier of Howden Sirocco air and gas handling equipment, large steam turbines and fluid drives to power and industrial customers. It has a well-equipped and staffed service and installation division that has full capability for installation, start-up, trouble shooting and servicing of major power and industrial rotating machinery installations.

Products: centrifugal and axial fans; steam turbines; air preheaters; fluid drives.

Ingersoll Rand Canada Inc.

75 Savage Drive
Cambridge, Ontario
Canada N1R 5X3
Telephone: (519) 740-2250
Fax: (519) 740-2021
Contact: Mr. Jeff Latty, Marketing Manager

Ingersoll Rand Canada manufactures and sells a wide range of centrifugal and reciprocating pumps, for the oil & gas, utility, navy, pipeline, steel making, OEM and general industry market sectors. The company is qualified to quality standard CSA Z299.2 and approved by the MCCR to design and manufacture pumping equipment for the nuclear industry, to ASME section III, class 2 and 3.

Products: 1/2 horsepower to 80,000 horsepower centrifugal pumps, 25 horsepower to 2700 horsepower reciprocating pumps. Materials range from



glass reinforced polymer to duplex, including commercially pure nickel. There are also complete repair and overhaul facilities and Ingersoll Rand is licenced to apply corrosion resistant and energy enhancement coating systems.

Invar Manufacturing Ltd.

1 Parry Drive
Batawa, Ontario
Canada K0K 1E0
Telephone: (613) 398-6106
Fax: (613) 966-7932
Contact: Ken Wigley

Invar Manufacturing Ltd. is one of the Linamar Group of Companies. Invar is one of Canada's leading contract batch manufacturing operations, recognized for its precision machined products and systems. The scope of the company's capabilities encompasses fabrication, machining and complete assembly. Complementing its involvement in the nuclear energy industry, Invar also manufactures a wide variety of complex components for the aircraft/aerospace transportation and defense industry. With manufacturing facilities in excess of 150,000 sq.ft., Invar utilizes the most advanced NC/CNC machine tools. Invar has established quality control programs approved to AQAP 1 and MIL-Q-9858-A standards.

Products: Precision Machined Components and Assemblies: fuel channel components, control rods, control rod drive mechanisms, adjuster drive mechanisms, shield plug assemblies, channel closure assemblies, end fitting assemblies.

ITT A-C Pump Canada

155 Dawson Road
Guelph, Ontario
Canada N1H 1A4
Telephone: (519) 824-7750
Fax: (519) 824-9543
Contact: Ron Stokker

ITT A-C Pump Canada designs, manufactures and markets centrifugal pumps for the mining, pulp & paper, municipal water and general industrial markets. Manufacturing is carried out in a 105,000 sq.ft. company-owned facility in Guelph, Ontario. Pumps are produced in a range of capacities up to 115,000 litres/min. and in a variety of metallurgies.

Products: process pumps for pulpy solids and corrosives; ANSI standard chemical process pumps; double suction centrifugal pumps; rubber-lined slurry pumps; hard metal slurry pumps; & 17 priming pumps; air operated diaphragm pumps.

ITT Barton Instruments

3840 - 11 A Street NE
Calgary, Alberta
Canada T2E 7K9
Telephone: (403) 291-4814
Fax: (403) 291-5678
Contact: Bill Foose

ITT Barton Instruments is a division of ITT Industries of Canada Ltd. and is involved with the manufacture of industrial process instrumentation. This equipment can be applied to any application requiring measurement or control of flow, level, pressure, temperature or density. Industrial applications are also very diverse ranging from oil and gas, shipbuilding, petrochemical plants to fossil fuel plants and has all of the qualifications and equipment for nuclear powered generating stations.

ITT Barton's extensive product line includes: temperature/flow pressure transmitters, level measurement systems,

turbine meters, differential pressure switches, fuel measurement, steam measurement, recorders, and boiler drum level systems.

John T. Hepburn, Limited

7450 Torbram Road
Mississauga, Ontario
Canada L4T 1G9
Telephone: (416) 671-2200
Fax: (416) 671-0499
Contact: Danny H. McKinnon, Vice President, Sales & Marketing

John T. Hepburn, Limited has been designing and manufacturing custom engineered material handling machinery for over 87 years. Hepburn has supplied power house cranes to nuclear, fossil and hydro power plants around the world. Special single failure proof crane designs are offered to the nuclear industry. Hepburn also manufactures special design extrusion presses for the nuclear industry. AECL uses a 350 ton Hepburn press to extrude zirconium for full bundle tubes.

One area of specialty is the machinery for handling and transfer of waste fuel and contaminated tubes and fittings to storage facilities. This technology includes transfer cranes up to 80 tons, transfer cars and automated cranes for removing the cranes from transport vehicles to storage vault areas. Each project is unique; Hepburn specializes in developing the customer's conceptual ideas into working designs and drawings and the followup with manufacture, installation and startup.

Hepburn has an audited quality assurance system which meets the requirements of CAN 3 Z299.1, AQAP 1, MIL-Q-98584 and BS5750 part 1. Complete documentation packages are available for contracts to the nuclear industry.



Keystone Canada Inc.

1001 Century Drive
Burlington, Ontario
Canada L7L 5J8
Telephone: (416) 681-1100
Fax: (416) 634-9606
Contact: Roy Williams, Vice President,
Sales & Marketing

Keystone Canada Inc. is a wholly owned division of Keystone International based in Houston, Texas. Keystone is the world's largest manufacturer of Actuators and Flow Control products for industry. Keystone is strategically located around the world with manufacturing and sales facilities to serve its customers on a global basis. Keystone Canada has been involved in the construction of numerous nuclear generating stations around the world. Since 1978, Keystone has supplied valves built in accordance with ASME III CL 2 & 3 for many critical services within containment areas. Keystone has built fully encapsulated rubber seated valves and high performance valves to these rigorous specifications.

Products: Fully encapsulated rubber seated Butterfly valves - F1000, F1020, F920, F104, F105; High performance Butterfly valves - K-LoK, F360, F362, F370, F372; AWWA-Compliance Butterfly valves - F47, F504, F506, F507; Actuators (Pneumatic, Electrical, Manual) - F790, F790R, F790A, F777, F427, F401; Chemical Industry valves - F240, F242; miscellaneous accessories for valve/actuator assemblies.

Koch Engineering Company Ltd.

4750 Sheppard Avenue East
Agincourt, Ontario
Canada M1S 3V7
Telephone: (416) 293-3666
Fax: (416) 293-6409
Contact: W. Peter Barker

Koch Engineering Company Ltd. designs and fabricates heat transfer equipment for both the domestic and export market, with emphasis on applications for the oil refining, chemical, petrochemical, power generation (fossil and nuclear) and pulp and paper markets.

Products: shell and tube heat exchangers, plate and frame heat exchangers, hairpin (double pipe and multitube) heat exchangers, finned tank heaters.

Kubota Metal Corporation's Fabrication Division

25 Commerce Road, P.O. Box 1700
Orillia, Ontario
Canada L3V 6L6
Telephone: (705) 325-2781
Fax: (705) 325-5887
Contact: Allan Gillespie, Vice President,
Marketing & Sales

Kubota Metal is a custom steel foundry specializing in the supply of heat resistant and corrosion resistant castings for the oil, gas and petrochemical industry. Our facilities include static and centrifugal casting, machine shop, fabrication and complete in-house non-destructive testing.

Products: Some typical products include furnace tubing and fittings for ethylene production, reformer tubes and hangers, and stainless steel centrifugal cast tubing.

Metacor Steel Products

120 Industriel Blvd.
Repentigny, Quebec
Canada J6A 4X7
Telephone: (514) 582-1810
Fax: (514) 582-1008
Contact: Mr. Denis Houde

The company specializes in custom made plate work fabrication. Metacor's extensive product line includes stacks, silos, cyclones, filters of all sizes, hoppers, fans, ducts and structural, conveyors, pneumatic system, pressure vessels and furnaces. All done in Z-299.3 level of quality control. Custom fabrication also includes many other equipment not listed.

MIL Davie Inc.

22 George D. Davie Street, P.O. Box 130
Lévis, Québec
Canada G6V 6N7
Telephone: (418) 837-5841
Fax: (418) 833-9492
Contact: Mr. Brian M. Smith, Export
Manager

MIL Davie, a member of the MIL Group of Companies, is headquartered in Lévis, Quebec, Canada. The company was founded in 1825 by Allison Davie. MIL Davie played a major role in Canada's development and has expanded and prospered over the years to become well known throughout the world for its quality workmanship in the marine construction and heavy industrial projects. MIL Davie has a modern facility and capability for building ships for clients worldwide and is active in the manufacture of a wide range of complex high quality industrial equipment in the hydroelectric and nuclear industries as well as specialized fabrications for the energy, pulp and paper and petrochemical industries.



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Milton Roy Industries Ltd.

300 Milroy Drive, P.O. Box 2260
Peterborough, Ontario
Canada K9J 7Y8
Telephone: (705) 743-6550
Fax (705) 743-5831
Contact: Bill Tucker or Bill Kicloch

Established in Canada since 1966, Milton Roy Industries Ltd. is a division of a multi-national corporation and a world leader in the manufacturing of chemical injection pumps, chemical dosing systems, and steam and boiler water sampling, analyzing and monitoring systems. Other products include the state-of-the-art electronic actuator and streaming current detector. Major chemical injection pump types are diaphragm, packed plunger and solenoid. Pump accessories include pulsation dampeners and chemical liquid agitators. All of the above products and systems have been used successfully in nuclear power generating stations in Canada and in South Korea.

MPB Technologies Inc.

1725 North Service Road, Trans Canada
Highway
Dorval, Quebec
Canada H9P 1J1
Telephone: (514) 683-1490
Fax: (514) 683-1727
Contact: George Earle

MPB Technologies Inc., founded in 1976, is a privately owned company specializing in high technology products and systems and in contract research and development. The staff consists of a unique combination of physicists, engineers and technical personnel, including over 40 Ph.D.'s on staff. Along with the diverse fields of lasers, telecommunications, microwaves, space technology and telrobotics, MPB Technologies Inc. is actively involved in magnetic and inertial fusion energy research. MPB Technologies Inc. was a founding member of the consortium responsible for the design and construction

of the Tokamak de Varennes, and presently has an on-going association with Centre Canadien de Fusion Magnetique. The capabilities of the company encompass physics, engineering, and instrumentation for both in-house activities and as a service to customers.

Products: engineering studies/design; instrumentation; diagnostic measurements; data acquisition system; processing and control systems; encoder/decoder timing system; fibre optic links; graphic display systems; diagnostics: magnetic, Mirnov, Roagowski coils, microwave interferometer, Thomson scattering system, impurity injection system.

NEI Parsons Canada Limited

40 Neilson Avenue
St. Catherines, Ontario
Canada L2M 7M9
Telephone: (416) 687-1170
Fax: (416) 687-4998
Contact: William J. Cumming,
Marketing/Sales Manager

NEI Parsons Canada provides service and refurbishment of steam turbines and generators of unit sizes 1000 kW to 1,000,000 kW from its St. Catherines facility. It is capable of reblading turbines, rewinding generator rotors, rebuilding stators as well as undertaking machining and fitting work of spare parts.

Neles-Jamesbury Ltd./Ltée.

1282 Algoma Road
Ottawa, Ontario
Canada K1B 3W8
Telephone: (613) 746-2211
Fax: (613) 746-0539
Contact: Frank Brunet

Established in Canada in 1964, Neles-Jamesbury is now part of the Repola group of companies. We are acknowledged leaders in metal seat valve technology as well as producing a variety of ball, B/F, globe and specialty valves and accessories. Plant locations are global, with our Canadian facility engaged in a variety of export projects in South America, Europe and Asia. Major activity in the past has included involvement in various CANDU reactor projects in Romania, Korea, Argentina, etc.

Products: "Stemball"SM metal seated ball valves to 30" size, B/F/ valves in a range from 3" to 48", "Q" ball anti-cavitation valves for compressor stations, globe valves, valve accessories.

Ontario Hydro

700 University Avenue, A14 C17
Toronto, Ontario
Canada M5G 1X6
Telephone: (416) 592-7119
Fax: (416) 592-8463
Contact: Leslie Baret-Sanderson

Ontario Hydro plans, designs, procures, constructs, operates and maintains its bulk electric system, with an installed capacity of 32,000 MW. Ontario Hydro also sells by-products, provides utility engineering, operations and maintenance services, research services, management consulting and training services to international utilities.

Products: construction management; design consultants; economic consultants; environmental consultants; geotechnical consultants; management consultants;



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radiation and health consultants; stress, thermal, vibration consultants; radiation shielding containers; shipping containers; decontamination, chemicals, equipment and processes; deuterium and deuterium gas; nuclear education courses; engineering construction; fuel cycle services; heavy water; remote inspection devices; hydraulic laboratories; radioactive waste management services; radioisotopes; research and development; risk analysis; remote handling robotics; reactor safety analysis; security systems; training simulators; security consulting; electric utility software products; thermal plant rehabilitation.

Proquip International

487 Speers Road
Oakville, Ontario
Canada L6K 2G4
Telephone: (416) 842-1721
Fax: (416) 849-0923
Contact: G.R. Muddiman, General Manager

Proquip is an independent Canadian owned and controlled company that manufactures the three basic product lines listed below. All of our products are designed in house and we hold many patents.

- rupture discs and accessories
- wafer style, twin flapper design check valves
- quick acting Line Blinds

Our products are used by most industries including oil production and refining, chemical and petrochemical, power, pulp and paper, steel producers and pipeline companies. Our largest domestic customers are TransCanada Pipelines Ltd. and Ontario Hydro. Close to 50% of our production is exported to customers in Scandinavia, Europe, Middle East, South Africa, Indonesia as well as the U.S.A. Our Quality Assurance program has been approved by AECL and Ontario Hydro and we have supplied the Calandria (Nuclear) rupture discs for every CANDU power plant built by AECL. We have also supplied check valves to nuclear specifications to Ontario Hydro.

Ralfor Plus Inc.

750 Lebeau Blvd.
St-Laurent, Quebec
Canada H4N 1S4
Telephone: (514) 336-3460
Fax: (514) 333-6587
Contact: George Czerniak, Business Development

Since 1969, Ralfor has fabricated items such as exchangers, Calandria vault liner plates, spent fuel tubes and flasks for its nuclear customers as well as head covers, penstocks and stator frames for its hydro customers. Our 82-foot-wide bays, CNC burning equipment, 1500-ton press brakes and 90-ton crane have enabled us to handle work of varying size and complexity. Through its overall manufacturing expertise, Ralfor will assess assembly drawings and optimize all fabrication in order to capitalize on savings with shipping, trial assembly and the utilization of the customer's own resources. Ralfor will fabricate to varying degrees of completion to suit stringent needs. According to our manufacturing plan, we will proceed with forming, shaping, surface preparation, welding and inspection. Ralfor conforms to: ASME Section III, Nuclear Power Plant; ASME Section VIII (U-Stamp), Boiler and Pressure Vessel; CSA Z299.2; CSA W47.1.

Ritepro Inc.

12,200 Albert Hudon
Montreal-North, Quebec
Canada H1G 3K7
Telephone: (514) 324-8900
Fax: (514) 324-9525
Contact: D. Barclay, President

The company designs and manufactures a comprehensive range of flow control devices principally, wafer style and tilting disc check valves for industrial, commercial and nuclear applications. Products are sold primarily through independent distributors in Canada and overseas.

Products include check valves in a wide range of materials and international specifications, sizes 1 1/2" to 42", pressure ratings ANSI 125 to 1500 and API equivalents. Couplings are Cam & Groove 1/2" to 8" military specifications, and Camlock style 3" to 30", flange ratings ANSI 150, marine and industrial applications. There are also loading & unloading arms, sizes 2" to 6" top and bottom loading for tank truck and rail tank car, petroleum and chemical applications, as well as service station equipment including vapour recovery components.



Industry, Science and
Technology Canada

Industrie, Sciences et
Technologie Canada

Canada

**Robert Mitchell Inc., Douglas
Bros. Industrial Division**

350 Decarie Blvd.
St-Laurent, Quebec
Canada H4L 3K5
Telephone: (514) 747-2471
Fax: (514) 747-3124
Contact: Mr. A. Kraulis, Manager (ext. 4207)

Douglas Bros. Industrial Division specializes in the custom fabrication of process equipment. Our complete line of metal working and testing equipment provides the versatility to supply high quality products to vastly diversified industries including chemical, petrochemical, nuclear, pulp & paper, and others. The company is qualified to CSA Z299.2, 3 & 4; ASME Section VIII with U-stamp from National Board; and ASME Section III - Classes 2 & 3.

Products produced in this division include pressure vessels, towers, heat exchangers, tanks, sheet metal and plate custom products in carbon and stainless steels, aluminum, nickel and other alloys, modules for process plants.

Rosemount Instruments Ltd.

808 - 55th Avenue N.E.
Calgary, Alberta
Canada T2E 6Y4
Telephone: (403) 275-8400
Fax: (403) 275-4331
Contact: John Kirk, Marketing Services
Manager

Rosemount Instruments Limited is a member of the Rosemount Group which is internationally recognized as a leader in the design, manufacture and marketing of high precision and quality measurement and analytical instrumentation, distributed control systems, and valves for the processing and aerospace industries. A broad based instrument company whose customers include the pulp & paper, oil & gas, chemical & petrochemical, food &

beverage, metal & mining and aerospace sectors, Rosemount Instruments serves the Canadian and export markets through a head office and assembly plant in Calgary, and sales offices located in Vancouver, Edmonton, Saskatoon, Winnipeg, Ottawa, Sudbury, Sarnia, Toronto, Montreal, Halifax and Moncton.

Products: Industrial pressure, temperature, level, flow, and density measurement instruments; Gas analyzers that can measure as many as 15 different gases and liquid analyzers that measure pH, conductivity, and turbidity as well as water quality analyzers, sample handling systems and combustion monitoring equipment; Distributed control systems, HART® communications protocol; fluid flow products including Coriolis mass flowmeters, valves, actuators, positioners, switches, and accessories; full line of micro-processor based instruments with digital communications capabilities known collectively as the SMART FAMILY® products.

Sandvik Canada Inc.

6835 Century Avenue
Mississauga, Ontario
Canada L5N 2L2
Telephone: (416) 826-8900
Fax: (416) 826-4927
Contact: J.F. McGurn, Manager Engineering

Sandvik commenced commercial steel production in 1862 and stainless steel production in the 1920's. Sandvik has 160 subsidiary companies in 50 countries and employs 26,000 people. Sales for 1990 were Cdn \$3.8 billion. Sandvik has a production facility for pipe and tube in Arnprior, Ontario which serves the Canadian and International markets. Our products have assisted in fabrication of components that are presently in nuclear CANDU and USA reactors, fossil-fired and hydro-electric power generation stations. The company currently comprises 6 key groups: Coromant, Rock Tools, Hard Materials, Steel, Saws & Tools, and Process Systems.

Products: carbide tools; carbide-tipped rock drilling tools; cemented carbide and

ceramics; stainless-Duplex stainless steels and high-nickel heat/corrosion resisting alloys, plus welding products; saws and tools; process conveyor belts/sorting systems.

Scintrex Ltd.

222 Snidercroft Road
Concord, Ontario
Canada L4K 1B5
Telephone: (416) 669-2280
Fax: (416) 669-5132
Contact: Mr. Abe Rolnick

Scintrex Ltd. is engaged in the research, design and manufacture of Earth Science Exploration Instrumentation, bomb sniffers, air pollution monitors, nuclear reactor monitoring devices, defence-related equipment and other scientific products. Scintrex operates its business from company owned premises in Canada and Australia. Scintrex employs 120 people whose technical and business skills place the company in the forefront of its selected areas.

Products: Nuclear: tritium, alpha, beta monitors; analytical: air monitoring equipment, odour vapour detectors for gas industry, bomb sniffers and related explosive vapour detectors; Earth Sciences: gravity meters, magnetometers, seismic instruments, resistivity meters, etc.

Shawflex Inc.

25 Bethridge Road
Rexdale, Ontario
Canada M9W 1M7
Telephone: (416) 743-7111
Fax: (416) 743-7199
Contact: Mr. T.W. Sutton

Shawflex Inc. is a manufacturer of quality wire and cable, process control tubing and air and fluid hydraulic products. The wire and cable product line specializes in low voltage power and, particularly, in instrumentation and control type cables employing various shielding techniques

including aluminum/polyester and corrugated, lapped, intercalated and gapped copper tapes for high noise environments. Using electron beam curing technology and proprietary materials, Shawflex manufactures a high performance line of nuclear rated cables which have been certified and installed worldwide. Process control tubing includes both single line tubing and multi-tube bundles with either plastic or metal tubes and a variety of jackets and/or armours for the most rigorous applications. The air and fluid hydraulics product line includes self-storing air hose, specialty hydraulic assemblies and a complete line of medium and high pressure thermoplastic hydraulic hoses, fittings and accessories.

SIHI Pumps Ltd.

225 Speedvale Ave. West
Guelph, Ontario
Canada N1H 6L8
Telephone: (519) 824-4600
Fax: (519) 824-7250
Contact: Lisa Tyler, Marketing Coordinator

SIHI Pumps Limited is the Canadian division of SIHI International. SIHI International is a group of companies consisting of 14 manufacturing plants world wide with 2000 employees. SIHI Pump Limited's plant in Guelph, Ontario produces equipment for the North American market, including Mexico. Products can be produced to CSA Z299 standards in house and to ISO 9000 by its European plants.

Products ranges locally produced include liquid ring vacuum pumps (both single and two stage), liquid ring compressors, specialty liquid pumps, pumping systems. Products produced by associated companies include all of the above items with the further addition of specialty mixers for the sewage industry, high quality filtration products for the food and beverage industries, seal-less pumping equipment (both liquid and vacuum) for the chemical and refrigeration industries.

Spar Aerospace Limited

Advanced Technology Systems Group
9445 Airport Road
Brampton, Ontario
Canada L6S 4J3
Telephone: (416) 790-4439
Fax: (416) 790-4400
Contact: Brian Fuller, Director, Nuclear Systems Product Line

Spar Aerospace Limited has developed remote handling manipulators that have operated in hostile environments in a safe and reliable manner. Spar has designed and built the robot arm which is currently operating successfully on the NASA space shuttle. Spar is now applying this technology to environmental restoration and fusion projects using reliable and cost effective equipment. Spar is also using its technology base and extensive experience in remoted handling applications to modify existing construction equipment for remote operations.

Products: Long reach manipulators, remote excavators, in and ex vessel remote handling systems (fusion), remote handling systems engineering, manipulator control systems.

Spectrum Engineering Corporation Ltd.

544 McDonnell Street, P.O. Box 687
Peterborough, Ontario
Canada K9J 6Z8
Telephone: (705) 743-7520
Fax: (705) 743-9878
Contact: Dr. J.W. Richman, P.Eng.

Founded in 1971, Spectrum is a multi disciplinary consulting engineering firm, providing project management and niche manufactured products to clients in the energy, industrial, defence and public works sectors. The firm is wholly Canadian owned and managed by its active principals. The company has a staff of 65. Spectrum offers a full service engineering

resource with a proven track record at home and abroad.

Products: remotely operated low torque tooling for reactor maintenance; control, shutdown, monitoring instrumentation and safety analyzes; reliability, availability, maintainability and safety systems; artificial intelligence and expert systems; nuclear processes, piping, nuclear ventilation; energy technologies for fusion and fission and high energy physics.

Stern Laboratories Inc.

1590 Burlington Street East
Hamilton, Ontario
Canada L8H 3L3
Telephone: (416) 548-5300
Fax: (416) 545-5399
Contact: Mr. Frank Stern, P.Eng., President

Stern Laboratories Inc. is a Canadian employee owned company incorporated under the laws of the Province of Ontario on March 21, 1988 in order to purchase the assets (excepting the real estate) of the former Contract Engineering Department of Westinghouse Canada Inc. The purchase was completed on April 26, 1988 and Stern Laboratories has since then carried on without changes in management. The business started in 1958 under the direction of Frank Stern, and continues to serve the energy industry.

Services and Products: Design, construction and operation of experimental facilities representative of nuclear reactor systems, to provide results for the development and verification of design codes. This usually involves testing of full scale components, apparatus and systems to determine performance under normal and abnormal (design basis event) conditions in the nuclear environment. Special instruments and devices, such as simulated, electrically heated and heavily instrumented "nuclear reactor fuel" for use in experiments evaluating the thermal performance of fuel designs under normal and design basis event operating conditions, and turbine flow-meters sturdy enough to withstand two-phase steam/water conditions over wide velocity ranges.

Sulzer Bingham Pumps Inc.

7900-B Taschereau Blvd., suite 106
Brossard, Quebec
Canada J4X 1C2
Telephone: (514) 465-0595
Fax: (514) 465-3422
Contact: Francois Goudreau

Sulzer Bingham Pumps Inc. is a leading worldwide supplier of high technology pumping systems, serving power utility and petroleum related markets as well as select other industrial segments. Sulzer Bingham covers a wide range of horizontal, single stage, multi-stage centrifugal and vertical multi-stage turbine type pumps. Our manufacturing plant in Burnaby, British Columbia qualifies to the highest quality standard CSA Z299.1 for nuclear application such as boiler feedwater, feedwater booster, cooling water circulation, condensate extraction, heater drain and condensate booster.

Taylor Forge of Canada Corporation

1675 Burlington St. E., P.O. Box 2511
Hamilton, Ontario
Canada L8N 3R5
Telephone: (416) 549-3051
Fax: (416) 544-6626
Contact: Mr. W.E. Summerhayes, Vice President and General Manager

A 100% Canadian owned company, Taylor Forge offers single source design and manufacturing services to meet the needs of pipeline, nuclear and process industries. Our plant operates to Quality Standards CSA Z299.2 and has been audited and approved by MCCR, ASME, AECL, NOVA and all major customers. Our unique ability to provide both engineering and manufacturing solutions to complex problems enhances the role we play in the market areas served.

Products: manufacturer of high yield fittings, flanges and extruded headers, nuclear reactor headers, fittings,

penetrations, vessels, specialty fabricated products, diaphragm valves, expansion bellows, and packaged air systems.

Trench Electric

71 Maybrook Drive
Scarborough, Ontario
Canada M1V 4B6
Telephone: (416) 298-8108
Fax: (416) 298-2209
Contact: Allan Finn, Director, Corporate Sales

Trench Electric is a designer and manufacturer of specialized electrical equipment for use by utilities and energy intensive industries. Recognized as a world leader producing products in both Canada and Europe, Trench Electric employs 800 people. Products are primarily sold direct to utilities or through turn key contractors.

Products: Inductors: power reactors, line traps; Instrument Transformers: capacitor voltage transformers, current transformers; Specialized power factor and voltage controller.

Unifin International Inc.

1030 Clarke Side Road, P.O. Box 5395,
Station B
London, Ontario
Canada N6A 4P4
Telephone: (519) 451-0230
Fax: (519) 451-1732
Contact: Tom Yu, International Sales Manager

Unifin designs and manufactures specialty industrial heat exchangers principally for cooling power generation, T & D, and electric apparatus equipment. In addition, we supply engineered products for the pulp & paper, chemical and environmental industries. Unifin has a long history of dealing with a wide range of applications and materials. Many of our exchangers are based on our in-house manufactured extruded fin tube heat transfer surface. Design and fabrication capabilities include

ASME code welding and Z299.3 quality assurance standards. In the nuclear industry, Unifin has supplied transformer oil coolers for two CANDU nuclear power stations in South Korea. Unifin is part of the Koch Heat Transfer Group which offers complimentary heat exchangers; i.e. shell and tube, plate and frame and hair pin heat exchangers.

Products: transformer oil coolers, transformer oil pumps, electrical apparatus coolers (lube oil and glycol), steam heaters, HVAC exchangers, heavy water condensers, D₂O coolers for fuel handling

Union Pump (Canada) Ltd.

4211 Mainway
Burlington, Ontario
Canada L7L 5N9
Telephone: (416) 335-2580
Fax: (416) 336-2693
Contact: Mr. Hani Fayed, Eastern Regional Manager

Union Pump is a leading company in the manufacturing of pumps for the oil and gas, petrochemical and related industries. The company also manufactures pumps for Reverse Osmosis and Industrial/Food Homogenization. The product line includes centrifugal pumps, reciprocating plunger pumps, and steam driven pumps. Centrifugal pumps are built to API 610 standard, latest edition or ANSI B73.2. The types of pumps range from horizontal overhung or between bearing to vertical inline and multistage pumps. Reciprocating pumps can be built to API 674 and range from a simplex to quintuplex designs, with horsepower ratings up to 1400 HP. Steam pumps can be built to meet very stringent requirements and are custom designed for specialty applications.



Industry, Science and Technology Canada

Industria, Ciencias at Tecnologia Canada

Canada

Valpro Inc.

2120 De La Province
Longueuil, Quebec
Canada J4G 1R7
Telephone: (514) 442-9252
Fax: (514) 442-3659
Contact: Andre Ayoote

Valpro Inc. is a Canadian owned corporation specializing in the assembly, testing and setting of safety and safety relief valves. Facilities include test air, test steam, and test water. The facilities are approved by ASME and the National Board to assemble and test valves.

Products: Valpro sells Consolidated® safety and safety relief valves fully assembled and certified in Canada.

VELAN Inc.

2125 Ward Avenue
Montreal, Quebec
Canada H3M 1T6
Telephone: (514) 748-7743
Fax: (514) 748-8635
Contact: Mike Zivic, V.P. Canadian Sales

Velan Inc. is North America's largest manufacturer of steel, gate, globe and check valves. The company also produces ball, knife gate, pressure seal and bellows seal valves ranging in sizes from 1/4" to 42" in cast or forged carbon, stainless or alloy steel. The company's three plants in Quebec have manufacturing areas totalling 300,000 square feet and employ 650 people. Additional manufacturing facilities are located in the United States, France, Portugal, South Korea and Taiwan.

Willowglen Systems Ltd.

Willowglen Business Park,
Manning Close N.E.
Calgary, Alberta
Canada T2E 7N5
Telephone: (403) 272-1800
Fax: (403) 272-2114
Contact: Emilienne Tremblay, International
Marketing Coordinator

Willowglen specializes in the engineering, design and supply of Supervisory Control and Data Acquisition (SCADA) systems. Major applications of our advanced technology SCADA systems are in the Oil & Gas, Electric Power, Water/Wastewater, Telecommunications and Transportation industries. We have been a major supplier of SCADA systems worldwide since 1974. Our large, modern facility, consisting of Head Office and Manufacturing Plant, is located in Calgary, Alberta, with branch offices strategically located internationally. Willowglen personnel have a proven ability to design and implement safe and secure systems using state-of-the-art hardware and software. Thus, the Willowglen solution meets the stringent performance criteria essential to the SCADA environment.

Willowglen's SCADACOM® Master Station represents a new generation of SCADA systems. The SCADACOM® Master Station is designed with real time performance and incremental expansion as basic features. Coupled with a sophisticated high resolution man-machine interface and fault tolerant operation, the SCADACOM® Master Station brings new levels of reliability and flexibility to the SCADA marketplace. SCADACOM® works on a hardware platform of SUN Microsystems RISC-Architecture Workstations on a high speed Local Area Network (LAN). Its implementation of a real-time Object Oriented Database multiplies performance factors by one to two orders of magnitude over conventional SCADA systems.

Zircotec Precision Industries Inc.

Dorset Street East
Port Hope, Ontario
Canada L1A 3V4
Telephone: (416) 885-4537
Fax: (416) 885-7357
Contact: Maryn R. Wash, Vice-President
Marketing

Zircotec Precision Industries Inc. has been involved with nuclear nuclear energy since 1956 and is a major supplier of nuclear fuel, fuel cladding and reactor components for nuclear service. Zircotec is a leader in the Canadian nuclear industry and offers its manufacturing expertise to off-shore fuel fabricators.

Products:

- Nuclear Fuel (Natural, Depleted and Enriched, Uranium Carbide, Uranium Metal Alloy: U-Si, U-th, U-ZR)
- Nuclear Fuel Cladding (Zircaloy-2 & 4, Zr-Nb, DANDU, PWR, BWR, Specialty Sizing, Aluminum and Stainless Steel)
- Nuclear Reactor Components (Calandria Tubes, Garter Springs, Guide Tubes & Assemblies, Fuel Latch Mechanisms, Closure Plugs, Reactivity Mechanisms)
- Services (manufacturing Technology, Fuel Design, Materials and Component Testing, Ultrasonic Flaw Detection, Helium Leak Testing, Resistance Welding, Vacuum Induction Brazing, Corrosion Testing and Vacuum Heat Treating).



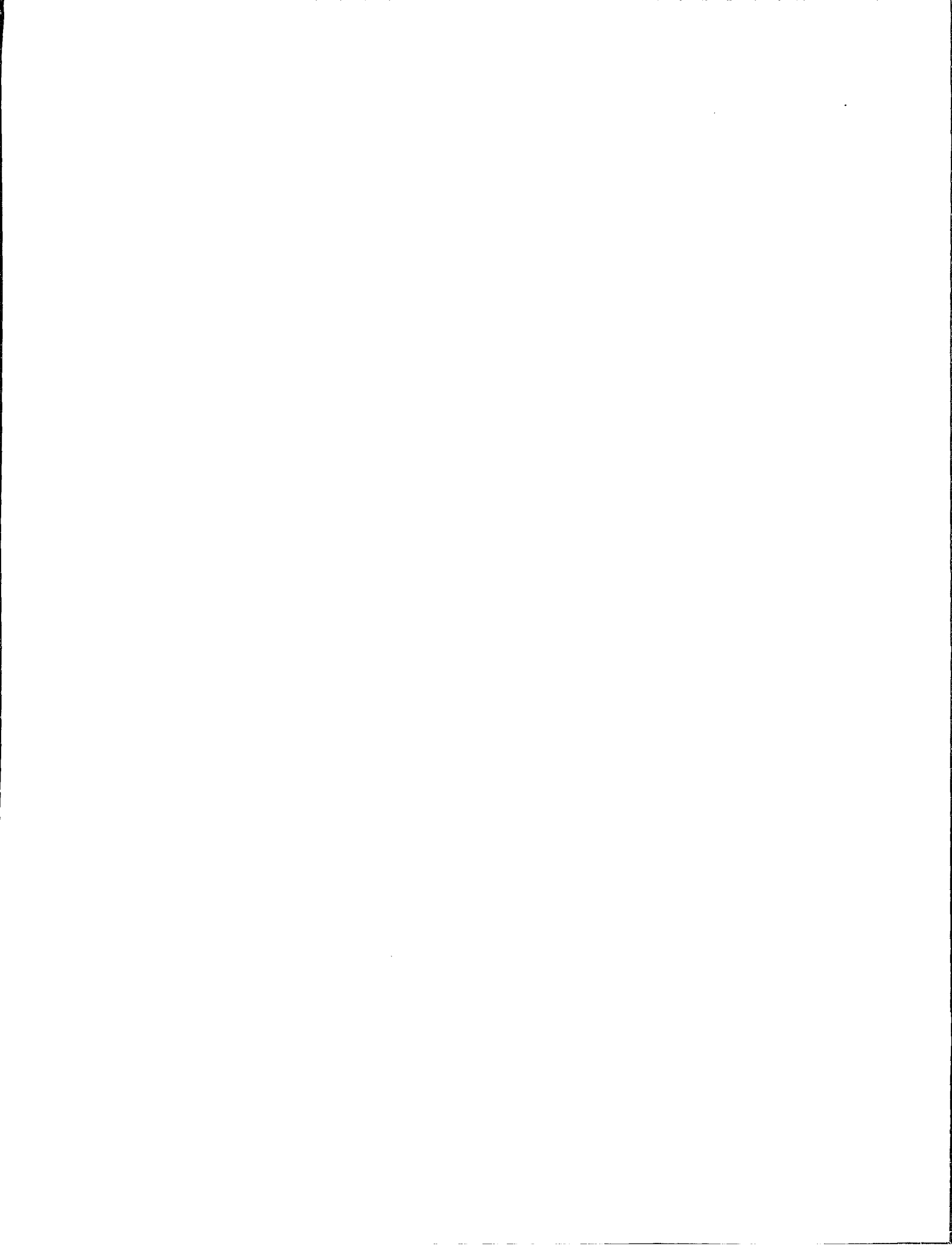
BUILDING AUTOMATION EQUIP. MANUFACTURERS AND SERVICES



Industry, Science and
Technology Canada

Industrie, Sciences et
Technologie Canada





Introduction

Automation for buildings is important to Canada today, and will be increasingly so during this decade. The evolution of this industry is resulting in products and systems that save energy, enhance lifestyles, and at the same time, create new industry opportunities. It will also stimulate existing industries to expand product benefits. Several market conditions will foster this evolution in Canada:

- New housing is reaching a cost/benefit plateau in reducing energy consumption through construction techniques. Automation offers an additional way to reduce energy consumption. By offering new home buyers reduced operational costs, extra convenience and lifestyle benefits, as well, builders will offset a pattern of declining construction growth.
- Utilities are increasingly interested in energy conservation. Environmentally concerned governments and consumers are working with utilities to initiate programs for better control and better consumer usage. To effect these, utilities are developing innovative programs and encouraging consumers to purchase systems with advanced energy efficiency.
- The population itself is changing. With over forty percent of all women in the work force today, there is increased need for daytime home security as well as convenience products.

The automation for buildings industry is represented in Canada by the Canadian Automated Buildings Association (CABA), whose head office is in Ottawa at the National Research Centre and whose president is Mr. Jack W. Fraser.





Alphabetical Listing of Companies

GE Canada

Honeywell Limited
Horizon Technologies Inc.

Johnson Controls Ltd.

Landis & Gyr Powers, Ltd.

Salco Technology Inc.
Siricon
Société de Microélectronique Industrielle
de Sherbrooke inc. (SMIS)

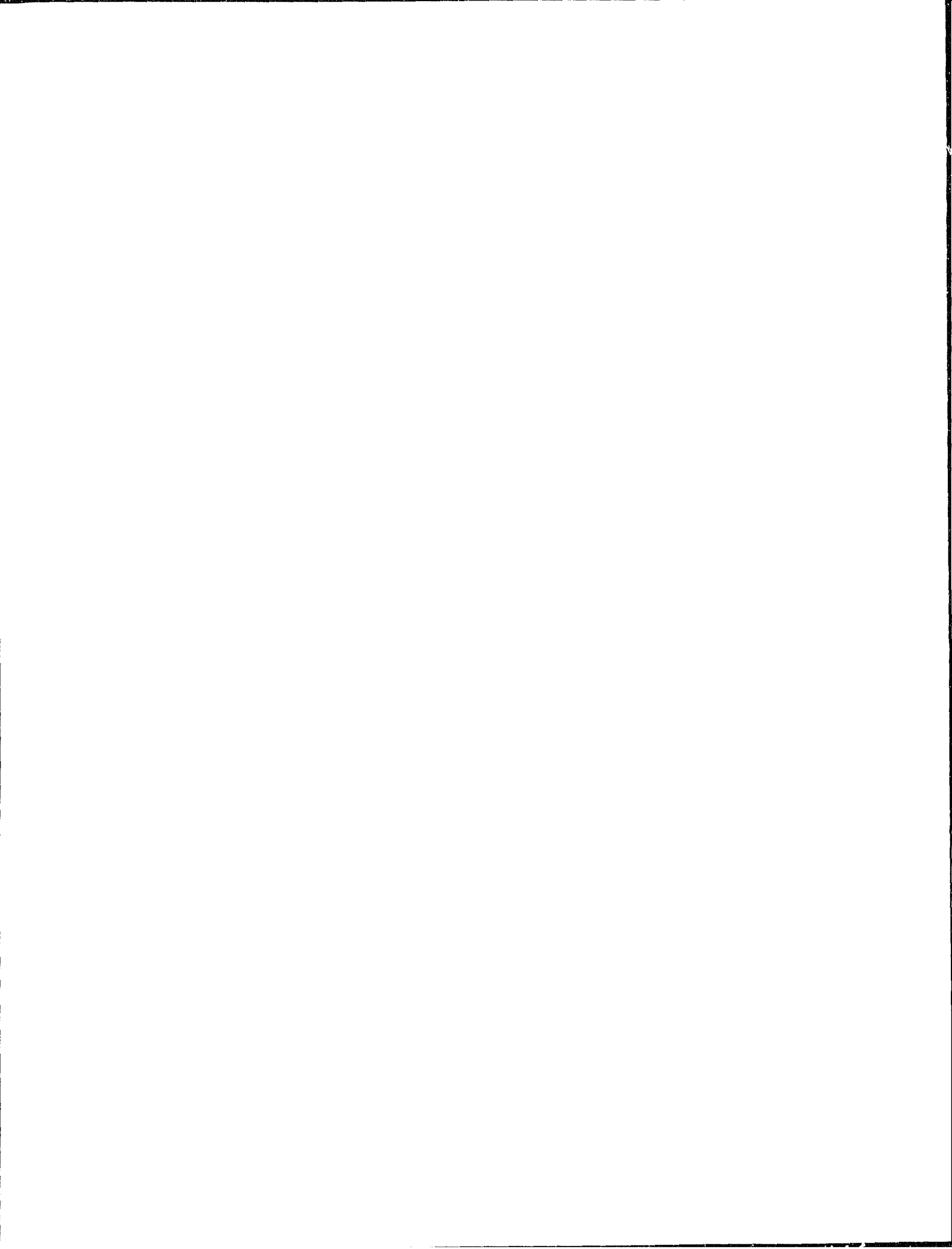
TRIO (Telecommunications Research
Institute of Ontario)

VCI Controls Inc.

W.B. Cross Co. Limited

X-10 Home Controls Inc.





Company Profiles

GE Canada

2300 Meadowvale Boulevard
Mississauga, Ontario
Canada L5N 5P9

Telephone: (416) 858-5466
Fax: (416) 858-5218

Contact: Niraj Bhargava, Manager, Business
Development Programs

General Electric worldwide has revenues of more than \$60 billion, more than 284,000 employees, and manufacturing operations in Canada, U.S., Europe, the Middle East, Africa, Asia, Japan and Latin America. In Canada, GE Canada has more than 100 Sales and Service locations and 16 manufacturing plants. GE Canada has annual revenues of more than \$2 billion and more than 8000 employees.

GE is committed to global leadership in each of its 13 businesses: Aerospace, Aircraft Engines, Appliances, Broadcasting (NBC), Financial Services, Industrial and Power Systems, Lighting, Medical Systems, Plastics, Electrical Distribution and Control, Information Services, Motor and Transportation Systems.

Products: Lighting, Electric Motors, Meters, Electrical Distribution and Control, Appliances, Hydro.

Honeywell Limited

740 Ellesmere Road
Scarborough, Ontario
Canada M1P 1V9

Telephone: (416) 293-8111 ext. 2293
Fax: (416) 297-4268

Contact: Paul Saabas, Market Manager

Honeywell Limited is a multi-divisional company that manufactures and services a wide variety of products from the thermostat on the wall to a complex integrated process control system for an oil refinery. Honeywell has been in business for over 100 years providing controls to help you control your world.

Products: The products that increase energy savings/automated building capabilities in the residential sector are:

- TotalHome™, an integrated Home Automation System that brings together HVAC control, lighting control and security into a package through the HBUS communication network. Additional work is being done on TotalHome™ to expand its capabilities to communicate with the D2B Bus, which is a protocol for consumer electronics, and to provide a communication link for demand side management.

- Other products that tie into the TotalHome™ offering are the Perfect Climate Products. Perfect Climate products are designed to enhance the indoor air quality of the home while providing energy savings. The Perfect Climate products are the Chronotherm set back thermostat which provides precise temperature control allowing the homeowner to reduce energy consumption by 20 to 30%. The Electronic Air Cleaner is another product in this group whose function is to filter the air within the home which will keep the coil of your furnace clean ensuring that it operates at peak efficiency. The Perfect Window ERV is a heat exchanger has the unique ability to transfer moisture back to area of highest moisture concentration. This will ensure the moist air is retained in the home during winter time operation thereby reducing the need to humidify your air and during the summer time it can dehumidify your air thus reducing the air conditioning load.

Honeywell also have a large number of electronic heat set back stats and water management devices.

Horizon Technologies Inc.

2758 Asquith Street
Victoria, British Columbia
Canada V8R 3Y5

Telephone: (604) 592-0487
Fax: (604) 592-1366

Contact: Ludo Bertsch, President

Horizon Technologies, Victoria, B.C. is an electronics technology company specializing in CEBUS and home automation. Ludo Bertsch, President, has been very active in the home automation area, both in North America as an active member of the CEBUS group, and internationally as representative for Canada. There are two main aspects of Horizon Technologies: custom contracts and supply of innovative home automation technology. The custom contracts involve working with manufacturers who are planning to enter the home automation field. Typical services include analyzing the effect of home automation on the manufacturer's product line(s), developing CEBUS versions of products, and detailed test analysis.

Johnson Controls Ltd.

7400 Birchmount Road
Markham, Ontario
Canada L3R 5V4
Telephone: (416) 494-1575
Fax: (416) 474-5349
Contact: Douglas K. Cross

Johnson Controls Ltd. Canadian Headquarters in Toronto, Ontario is a leader in facility management and control systems, automotive seating, batteries and plastics. Founded in 1885, it operates in 30 locations nationwide with 350 worldwide. Johnson Controls securities (JCI) are listed on the NYSE with World Headquarters in Milwaukee, Wisconsin.

Products: automatic temperature controls, comprehensive facility management systems, card access and security systems.



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Canada

lighting retrofit and control, fire alarm and management systems.

Landis & Gyr Powers, Ltd.

1200 Courtney Park Drive
Mississauga, Ontario
Canada L5T 1S2
Telephone: (416) 670-0133
Fax: (416) 670-9215
Contact: Gary Frayn, National Sales Manager

Landis & Gyr Powers, Inc. is an industry leader in providing building management solutions to commercial and other non-residential facilities. With over 2500 employees and 115 field offices across North America, the company designs, manufactures and installs heating, ventilating, and air conditioning (HVAC) control systems in addition to integrated access management, life safety, lighting and laboratory applications. The company also provides service to technical building systems and overall facility management. The parent corporation, Landis & Gyr, is a \$2 billion international leader with special interests in comfort, control, energy management, and communications. The Comfort Controls Group is one of the largest installers and manufacturers of building automation and comfort controls in the world. As One Company/One Team, Landis & Gyr Powers leads the industry as an international marketer of Building Management Solutions.

Products: Landis & Gyr Powers manufactures a complete line of pneumatic and electronic (DDC) controls that are used to sequence and automate heating, ventilating and air conditioning equipment. Although manufactured in Buffalo Grove, Illinois, all components are distributed and serviced by branches throughout Canada.

Salco Technology Inc.

#135 - 260 Adelaide St. East
Toronto, Ontario
Canada M5A 1N0
Telephone: (416) 840-4771
Fax: (416) 840-9809
Contact: Leo Salemi, Managing Director

Salco Technology specializes in the sale, installation and development of security and home automation products used in residential and commercial applications. Services include the pre-wiring of new residential construction for security, intercom, music, telephone, cable, video and low voltage wiring for environmental controls. Retrofit installations are also provided by making use of power line carrier technology and IR/RF links. The company's main objective is to integrate the various products and technologies to provide consumers with an affordable automated system which will provide security, convenience and energy conservation.

Products: Salco Technology is currently extending its product search to cover CEBus and SMART HOUSE related technologies. Manufacturers product lines which are currently being used or evaluated include DCS, Leviton, Stanley, Napco, X-10 Powerhouse, Tecktone and Enerlogic.

Siricon

1455 Boul. de Maisonneuve
Montreal, Quebec
Canada H3G 1M8
Telephone: (514) 848-8770
Fax: (514) 848-3198
Contact: Dr. P. Fazio, President

Siricon is a non-profit corporation whose mission it is to transfer the latest technologies to the building industry and to assist it in acquiring the required knowledge to operate effectively and competitively. Siricon works closely with industry and universities to promote new

technologies and improve old ones for increased energy efficiency in buildings. Siricon has acquired extensive experience in computer modelling, building thermal measurements, energy efficient envelope design and detailing. As well as passive and active solar energy utilization, thermal storage, and indoor air quality and environmental control.

Products: New product development includes HVAC, energy analysis software development, technical reports and building energy audits, and other engineering services.

Société de Microélectronique Industrielle de Sherbrooke inc. (SMIS)

3330, rue King Ouest, Suite 212
Sherbrooke, Québec
Canada J1L 1C9
Telephone: (819) 829-5120
Fax: (819) 829-1133
Contact: Alain Boucher, General Manager

The Société de Microélectronique Industrielle de Sherbrooke (SMIS) offers professional research and development services in the fields of electronics and software engineering. The firm has specialized in several key applications like telecommunications, energy management, home automation and instrumentation. Noticeable projects include the implementation of demand-side energy controllers accessed from the utility by means of bidirectional telecommunications links.

Products: consulting; technical and economic feasibility studies; design and development; prototype and low-volume manufacturing.



**TRIO (Telecommunications
Research Institute of Ontario)**

340 March Road, 4th Floor
Kanata, Ontario
Canada K2K 2E4
Telephone: (613) 592-9211
Fax: (613) 592-8103
Contact: Jim McPherson

TRIO manages a program of over \$5 million annually in precompetitive university research of relevance to the Canadian telecommunications industry. Members of TRIO enjoy royalty-free use of research results from 22 projects, in network architecture/access; protocols and software engineering; antennas and signal processing; mobile and satellite communications systems; photonic networks and systems; and high speed design and testing methods.

VCI Controls Inc.

2081 Merivale Road
Nepean, Ontario
Canada K2G 1G9
Telephone: (613) 226-6712
Fax: (613) 226-2203
Contact: Hubert L. Stephens

VCI Controls Inc. is the largest Canadian-owned company providing Canadian-designed and manufactured electronic building control systems and have been meeting the needs of their Building Automation clients since 1979.

Products: The 9100 Networked Energy Management Control System provides unprecedented power, flexibility and ease-of-use. It features a full Windows Graphical User Interface with "point and shoot" operating controlled by the click of a mouse. The 9100 is the latest in a series of ground-breaking control systems engineered by VCI Controls - a series started in 1980 with the first all-electronic, direct digital control system in the industry. In keeping with our commitment to our existing client base, VCI designed

the 9100 to be compatible with existing VCI installations. With the 9100, VCI continues its commitment to providing customers with the most advanced Building Automation Systems.

W.B. Cross Co. Limited

5380 King Road, P.O. Box 34
Nobleton, Ontario
Canada L0G 1N0
Telephone: (416) 859-9050
Fax: (416) 859-9066
Contact: W.T. David Cross, President

W.B. Cross Co. Limited is a distributor and an installer of customized automated building control systems for both commercial and residential applications. The company has been in the business for over 50 years. We specialize in the design of automated building systems to control lighting, heating and air conditioning using power line carrier technology (existing building electrical wiring) and hard wire to reduce energy costs.

X-10 Home Controls Inc.

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Established in 1976, the X-10 Manufacturing & Marketing Group has gained an enviable reputation as a world leader in automation, security products, and energy management. Our products have multiple application capabilities in the areas of wireless remote control and automation of lighting, appliance and heating/air condition. Our systems utilize existing powerlines as the means of signal transmission along with, and in some cases by means of, RF control.

Products: Programmable timers and computer interfaces, wireless remote controls, telephone responders, thermostat

heating/air conditioning set-back controllers, light and appliance control modules, wireless security systems with built-in voice dialers, key chain remotes, infrared remote controls.

