

EQUIPMENT: Raylo Chemicals has well equipped laboratories with the following instruments: 60 MHz proton magnetic resonance spectrometer; infrared and ultraviolet spectrophotometers; high performance liquid chromatograph, equipped with a variable wavelength ultraviolet detector with stop-flow capability; gas chromatograph, both packed column and capillary column, with FID and TC detectors; size exclusion chromatography system with differential refractometer; and other up to date chemical, biochemical and physical equipment.

Under an established arrangement with the University of Alberta, high resolution instruments such as Fourier Transform Infrared Spectrometer; Fourier Transform (100, 200 and 400 MHz) and Carbon-13 magnetic resonance spectrometers, and low and high resolution mass spectrometers are available to Raylo's research staff. Raylo also has access to and experience in using a low angle laser scattering photometer (KMX-6), particularly useful for determination of absolute molecular weight and molecular weight distribution polymers.

Raylo's plant equipment includes multi-purpose glass and stainless steel, jacketed, stirred reactors in the 10-1000 gallon range and a broad selection of separation equipment.

EXPERIENCE: The company has produced 77 patents and 35 publications. Raylo's clients are government, universities, and industry in the US, Canada, Europe and Japan.

KEYWORDS: Chemical Processing; Contract Research; Custom Synthesis; Monomers; Non-Routine Analysis; Physical Chemistry; Polymer Chemistry; Process Development; Product Characterization; Supercritical Gas Technology.

REVISED: January 88

RAYTHEON CANADA Ltd

ADDRESS: 400 Phillip Street
Waterloo, Ontario, Canada
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HISTORY: Raytheon Canada Ltd is a high-technology electronics company established as a Canadian corporation in 1956. Raytheon Canada is an independent, wholly owned subsidiary of the Raytheon Company, Lexington, MA.

CAPABILITY: Raytheon Canada Ltd designs, develops and manufactures Air Traffic Control (ATC) and Communications systems for civil and military applications for the world market. As a complete system supplier, Raytheon Canada is equipped to take on assignments of a national scope. In its role as a developer and manufacturer of high technology, state-of-the-art systems, Raytheon Canada's product base includes a broad range of ATC equipment including primary radars for terminal and enroute applications, ground control approach radar systems (mobile and fixed base), and navigational aids. Raytheon Canada also has a distinguished background in the design and manufacture of a wide range of communications equipment for both domestic and export markets. Products in this area span the range from microwave components to complete satellite ground stations and terrestrial microwave systems.

AVERAGE WORK FORCE: PhDs - 2
Engineers - 50
Others - 580

GROSS SALES: 1986 - \$123M
1987 - \$144M

PLANT SIZE: 132,000 Sq Ft

EQUIPMENT: In-house computer systems include VAX and IBM. Manufacturing includes some of the most sophisticated, fully automated machinery available for today's technology, such as Hardinge precision lathes, and a group of vertical and horizontal mills with Direct Read-Out Control. The test area also includes the most up-to-date multi-layer board test equipment.

EXPERIENCE: Raytheon Canada's customers include Transport Canada and the Department of National Defence. Previous customers include - all Canadian telephone companies, Telesat Canada, and Teleglobe, as well as numerous overseas PTT's, etc, and Civil Aviation Authorities.

KEYWORDS: Primary Surveillance Radar; Secondary Surveillance Radar; Ground Control Approach Radar; Precision Approach Radar; Radar; ATC Display Systems; Flight Data Processing; Radar Data Processing; VHF Omirange; Distance Measuring Equipment; Satellite Earth Stations; EHF Synthesizer; ATC.

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RDS ENGINEERING

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HISTORY: RDS Engineering, a privately owned Canadian company, utilizes state-of-the-art CADD (Computer Aided Design and Drafting) technology, providing engineering and drafting services to the Government, Fisheries, Shipbuilding, Industrial/Commercial Building, Defence, and Electric Utility industries. The company was founded in 1986. Branch offices will soon open in New Brunswick and in two locations in Ontario.

CAPABILITY: RDS Engineering is a full service consulting engineering firm. We feel we have revolutionized the engineering design and drafting industry with our CADD technology. The technology, which we have developed, can be found nowhere else in Eastern Canada. Designs are performed directly at CADD workstations, as well as all drafting deliverables. In many cases, drafting deliverables from CADD can be created seven to eight times faster than the conventional drafting board. Our state-of-the-art electrostatic plotter can deliver a full-size engineering drawing in 18 seconds. Changes on drawings can be made in a matter of seconds; bills-of-material are generated automatically. RDS Engineering can electronically check drawings for interferences between systems (i.e., piping and structural steel). The quality of our drawings is unequalled. Our technology helps us produce a product for our clients in the minimum time possible.

AVERAGE WORK FORCE: Engineers - 6
CADD Operators - 10
Others - 4

GROSS SALES: 1987 - \$0.6M
1988 - \$0.9M

PLANT SIZE: 4,200 Sq Ft (Design Center)

EQUIPMENT: Complete 2-D/3-D CADD system including seven CADD workstations, CADDserver, Electrostatic Plotter, Dot Matrix Printer, Color Plotter, Graphics Accelerator, one billion byte memory system, Apple Macintosh PC's, IBM PC's, and LaserWriters.

EXPERIENCE: Clients include Newfoundland Dockyard, St John Shipbuilding Ltd, Canadian Coast Guard, Supply & Services Canada, Universal Multifoods Ltd, Grove Telecommunications Ltd, Seaboard Construction Ltd, McNamara Construction Ltd, MRL Contractors Ltd, Beck Construction Ltd, Nordco Ltd, and Fisheries Products International Ltd.

KEYWORDS: Consulting Engineers; Energy Audits; Quality Assurance; Project Management; CAD & Drafting Systems; Drawing Preparation; Energy Conservation Studies; Interface Checking (Electronically); Project Scheduling; Modelling Mapping (3-D); CNC Input; Site Engineering.

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