

technical publications, training programs, as well as the traditional repair and overhaul of Bendix Avelex proprietary aerospace and defence products. In addition, support is provided for the products of more than 300 different Original Equipment Manufacturers. With this wide range of capabilities and expertise, Avelex is a competitive alternative source for US DOD repair and support programs. The company is a major supplier of support services to the Canadian Department of National Defence, the Department of Transport and to aerospace and defence contractors. The following "customer oriented" organization structure illustrates the company's commitment to provide responsive, timely and cost-effective support:

- Three specialized operations groups, each equipped with dedicated management, logistic and test engineering resources as well as independent Quality Assurance staff. The groups specialize in Electronic Systems, Gas Turbine Engine Controls, and Electro-mechanical components.
- A dedicated, technically component Customer Support department which provides Integrated Logistic Support planning and analysis, engineering support services, and bilingual technical publications.
- The whole operation is supported by an integrated configuration control and data management group.

Bendix Avelex' support capabilities span 64 NATO stock classes, the most prominent being - 1630, 1650, 1660, 1680, 2915, 2925, 2995, 4320, 4810, 4920, 5826, 5855, 6125, 6610, 6615, 6620, 6665, 6680, and 6685.

**AVERAGE WORK FORCE:** Engineering - 125  
Production - 325  
Marketing - 20  
Others - 325

**GROSS SALES:** 1986 - \$59M  
1987 - \$66M

**PLANT SIZE:** 220,000 Sq Ft (Montreal, Que)  
32,000 Sq Ft (Vancouver, BC)  
21,000 Sq Ft (Cornwall, Ont)

**EXPERIENCE:** Bendix Avelex Inc's present customers include the Canadian Department of National Defense (Gun Alignment and Control systems, Electro-optics, Night Vision Systems, Video Interactive Gunnery Simulators, Operations Tactical Training Simulators, repair and overhaul of aircraft instruments, accessories, navigation aids and airborne radar), The Canadian Department of Transport (Position Adjustable Range Reference Orientation Transponders), Pratt and Whitney Canada (engine control systems), Air Canada (wheel and brake parts and instruments), Boeing Vertol (V 22 Thermodynamic Fuel Flow Monitoring systems), de Havilland (avionics equipment, flight and engine instruments and accessories), Canadair (electrical connectors, drone alignment systems and aircraft accessories), General Electric (USA) (engine fuel control systems), Martin Marietta (Optical Encoder).

**KEYWORDS:** Artillery Alignment & Control System; Avionics; Brake Parts; Compass Systems; Drone Alignment Systems; Electro-Optics; Engine Fuel Control Systems; Fuel Control; ILS; Image Intensification; Instruments; Machining; Navigation; Navigation Systems; Night Vision; Precision Machining; R&O (Avionics); R&O (Components); Radar; Simulators; Thermal Imaging; Training; Wheel Parts.

**REVISED:** February 88

## THE BERCHA GROUP

**ADDRESS:** 1220 Kensington Road N W, Suite #250  
Calgary, Alberta, Canada  
T2N 3P5

**CONTACT:** Dr Frank G Bercha, President - (403) 270-2221

**HISTORY:** The company was incorporated in 1980 in Calgary, Alberta, and currently has a branch office in Ottawa, Ontario. The company is 100% Canadian-owned.

**CAPABILITY:** The Bercha Group specializes in providing an integrated remote-sensing service. The company has developed an in-house professional capability to carry out any remote sensing project which involves the use of satellite, spaceborne, or airborne remote sensing systems. The familiarity of corporate personnel with remote sensing operations and systems has enabled the group to complete studies ranging from feasibility analysis of sensors or specific applications to development and testing of state-of-the-art remote sensing systems. Corporate personnel have extensive experience in both analogue and digital interpretation techniques. The staff is familiar with the DIPIX Aries II and III systems extensively used for image analysis throughout the world, PC-based image analysis systems and custom designed image analysis systems developed by the Bercha Group in support of projects. Methods used by the group for analysis include both manual techniques such as the use of the zoom transfer scope and densitometers, to application of various algorithms on image analyses systems for edge enhancement, scale rectification, core registration of data, and thematic mapping. The company has over five years real-time airborne operational support experience in ice populated waters, both in the Beaufort Sea and Hibernia/Grand Banks areas; and three years experience in completing international projects including resource surveys, data acquisition programs and topographic mapping programs in Australia, Papua New Guinea, Fiji, Brunei, and Indonesia.

**AVERAGE WORK FORCE:** Total - 15 (including executive, engineering staff, sensor technicians and support staff)

**GROSS SALES:** 1986 - \$2.0M  
1987 - \$1.5M

**PLANT SIZE:** 2,500 Sq Ft (Office Space)

**EQUIPMENT:** PC-based image analyses systems.

**EXPERIENCE:** The Bercha Group has carried out work for most of the major US oil companies, including Exxon, ARCO, Amco, Mobil, Chevron, Sohio, and Phillips, as well as selected projects for Burlington Northern and a number of mining companies. Its principal clients in Canada constitute the Federal Government, Dome Petroleum, Petro-Canada, Gulf Canada Resources, Husky-Bow Valley, and Mobil Canada. Internationally, the company has completed data acquisition in Australia, Fiji, Papua New Guinea, and Indonesia.

**KEYWORDS:** Airborne Surveys; Environmental Analysis; Mapping; Remote Sensing.

**REVISED:** March 88

## BOEING OF CANADA Ltd (Arnprior Division)

**ADDRESS:** Arnprior Airport  
Arnprior, Ontario, Canada  
K7S 3M1

**CONTACT:** Mr Jim Sawyer, Vice President & General Manager - (613) 623-4267

**HISTORY:** Piasecki Helicopter Corporation of Canada Ltd was formed in 1953 as a repair and overhaul base for R.C.A.F. H-21 helicopters. In 1956, Piasecki was changed to Vertol Aircraft Company (Canada) Ltd, and in 1959, it was renamed Canadian Vertol Aircraft Ltd. In 1960, Boeing purchased Vertol and the name was changed to Boeing of Canada Ltd. Boeing of Canada Ltd, Arnprior Division, is a subsidiary of The Boeing Company located in Seattle, Washington.

**CAPABILITY:** The following is a breakdown of some of the programs Boeing of Canada Ltd, Arnprior Division, is currently involved in:

- Boeing Commercial Airplane Program: Manufacture of machine shop and sheet metal shop detail parts in support of 727/737/747/757/767 Boeing Commercial Airplane programs. Includes manufacture and assembly of all 757/767 electronic trays and shelves and is the key supplier of major components for the Engine Strut.