

a full complement of telecommunications services, including consulting engineering (terrestrial and space); traffic studies (fixed and mobile); specifications; implementation (electrical, electronic and civil) commissioning; maintenance; operations support; billing systems; and training.

Elinca was the prime contractor on a 2 800 km microwave network passing through the West African countries of Benin, Niger, Burkina Faso (formerly Upper Volta), Mali and Senegal. This system is part of the Pan-African telecommunications infrastructure. Elinca was charged with the design, supply, transportation, delivery, installation, testing and commissioning of the network, a 2 GHz and 6 GHz microwave system comprising 50 stations, terminals and repeaters. The project was completed in 1982.

Elinca was formed in 1973. Its membership now consists of Andrew Antenna Co. Ltd., a supplier of microwave and earth station antennas as well as waveguide and coaxial components; Raytheon Canada Ltd., a supplier of air-traffic control radars and systems; and SNC Enterprises Ltd., a consulting engineering and project management organization with expertise in the telecommunications, broadcast, energy, automation, buildings, industrial plants, transportation and resource engineering disciplines.

## **Epsco Microwave Technologies Inc.**

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KEY PERSONNEL:

Paul Mercer, President/General Manager

Peter Balodis, Marketing/Sales Manager

Epsco Microwave Technologies Inc. is a subsidiary of Epsco Inc. of Westwood, Massachusetts. The company designs and manufactures microwave components and subsystems for Canadian and international markets.

Products include multi-octave and narrow band GaAs FET amplifiers to 28 GHz with low, medium and high power; units up to 40 GHz are under development. EMT also supplies custom Microwave Integrated Modules that incorporate components such as amplifiers, switches, filters, isolators, attenuators, limiters and mixers. All products are produced to a quality program level of AQAP-1 or MIL-Q-9858A for military markets.

The company's main products are superior noise figure C and Ku band LNAs, up/down converter systems and solid state power amplifiers. Examples are the 14 to 14.5 GHz 10 watt, 5.925 to 6.425 GHz 20 watt, and 10.825 to 11.425 GHz 20 watt amplifiers now in production.

Passive microwave products include waveguide and coaxial circulators, isolators and isoadaptors, as well as special loads, waveguide components and electroformed structures.

## **Etcom International Inc.**

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Etcom provides consulting advice and technical support personnel to clients in the telecommunications industry in Canada, the United States and overseas. Through its association with the Edmonton Telephone Co., Etcom has expertise in systems design, technical implementation and training and support. The company offers proprietary software and hardware for specialized applications in PTTs.

Etcom also works in association with Northern Telecom to provide technical expertise and advice on installation and implementation of new switching systems. The company has developed a major business interest in the People's Republic of China where it is active in supplying and installing first-generation digital switching equipment.

## **EXFO Electro-Optical Engineering Inc.**

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EXFO Electro-Optical Engineering Inc. specializes in a reliable and innovative line of fibre-optic instrumentation for the telecommunication industry, covering applications in both field and laboratory testing. The line of higher specification instruments includes optical power/attenuation meters, light sources for optical fibres, variable optical alternators and optical telephone sets, as well as a line of accessories, optical calibrators and connector/fibre adaptors.

## **Exide Electronics Canada, Inc.**

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Don Cannon, Director, Business Development

Exide Electronics Canada, Inc. manufactures a range of static uninterruptible power systems (UPS) in the range 15 to 750 kVA, 50 and 60 Hz three phase, 1.5 to 30 kVA single phase and 50/60 to 415 Hz frequency converters. High-reliability solid-state modular design with built-in diagnostics and self-test features permit ease in maintenance and minimum downtime. Exide Electronics' systems provide back-up power for a broad cross-section of utility and security installations, as well as for telecommunications requirements.