

environments. This system has been selected by General Dynamics for implementation in the F-16 aircraft, by Boeing for use on the EC-135 and by a number of simulator manufacturing companies.

The company also produces programmable display modules (PDMs), cathode ray tube cockpit displays, and liquid crystal displays (LCDs). A Pittsburgh subsidiary, Panelvision, designs and manufactures programmable liquid crystal displays.

Another successful R&D program that has also progressed to production is the Inertial Referenced Flight Inspection System (IRFIS). IRFIS is a self-contained enroute and terminal navaid calibration system. It performs calibration of Category I, II and III Instrument Landing Systems with higher accuracy and lower operating costs than other systems currently in use.

Another example of the successful implementation of R&D and systems engineering is the Litton family of Airborne Search Radar Systems. LSL entered the field in 1972 when, in conjunction with the AIL Division of Cutler-Hammer, it designed and developed radar systems for fleet fitment in the Canadian Forces CH-124 Sea King Helicopters. Since that time, a number of different systems have emerged with varying capabilities. The Litton radar is currently flying in 16 different types of aircraft in 18 countries around the world. The company is building X Band Radar for the Canadian LLADs and the US FAD-LOS programs. In the summer of 1988, the company will open a radar manufacturing facility in Halifax, Nova Scotia to produce these radars and to support the CP-140 aircraft.

LSL has recognized that an electronic system management capability is a national priority, and has taken the necessary steps to equip the company with the organizational structure, skilled management, technical personnel and specialized computer facilities to undertake the management of large, complex electronic and avionic programs.

**AVERAGE WORK FORCE:** Engineers - 800  
Mfg/Admin/Techs - 2,700

**GROSS SALES:** 1986 - \$306M  
1987 - \$451M

**PLANT SIZE:** 818,673 Sq Ft

**EQUIPMENT:** No Data

**KEYWORDS:** ATC; ATC Simulators; Avionics; Build-To-Print; Cathode Ray Tube Displays; Cockpit Displays; Data Acquisition; Data Analysis; Displays; Fiber Optic Gyros; Flat Panel Displays; Inertial Navigation; Instruments; Intrusion Detection; LED Displays; Liquid Crystal Displays; Navigation; R&O (Avionics); Radar; Search Radar; Ring Laser Gyros; Simulators; Solid State Devices; Subcontract Manufacturing; Training.

**REVISED:** February 88

## LNS SYSTEMS Inc

**ADDRESS:** 7 Bovis Avenue  
Pointe-Claire, Quebec, Canada  
H9R 4W3

**CONTACT:** Mr Neil R Bronson, RSM Product Manager -  
(514) 695-8130

**HISTORY:** LNS Systems Inc was incorporated in 1971 as a wholly owned subsidiary of International Technical Products Corporation Inc (ITPC) of Washington, DC. LNS' ownership changed to Leigh Instruments Ltd (LIL) of Ottawa in 1979. In 1982, LNS was purchased by the current management team under the leadership of Richard Prytula.

**CAPABILITY:** LNS Systems Inc designs, manufactures and markets mobile, fixed and transportable air traffic control and monitoring systems, and mobile runway lighting systems for government customers. LNS' products consist of both LNS standard manufactured products and specialized systems to meet customers' specific operational requirements. LNS capabilities include custom integration of

hardware systems and design of specialized software applications. From LNS' subsidiary Metcan Fabricators of Ottawa, LNS can provide specialized shelters, test workshops and mobile trailers.

**AVERAGE WORK FORCE:** Engineering - 6  
Marketing/Contracts - 7  
Manufacturing - 21  
Admin/Management - 12

**GROSS SALES:** 1986 - \$ 3.0M  
1987 - \$13.0M (Est'd)

**PLANT SIZE:** 30,000 Sq Ft (Manufacturing)  
10,000 Sq Ft (Office)

**EQUIPMENT:** LNS' manufacturing departments include electrical and electronic assembly, mechanical fabrication, testing and quality control.

**EXPERIENCE:** LNS' sales are primarily to military, civil aviation, government, communications agencies (i.e., Post, Telephones and Telegraph 'PTT'), internal security and other government customers. LNS' diverse products have been sold in Kuwait, Saudi Arabia, United Arab Emirates, Venezuela, Philippines, Yugoslavia, Algeria, Barbados, Bahamas, Guatemala, Canada and the US.

**KEYWORDS:** ATC; Mobile ATC; Runway Supervision; Communications Switching; Runway Lighting; Spectrum Monitoring.

**REVISED:** January 88

## LUCAS INDUSTRIES CANADA Ltd

**ADDRESS:** 5595 Royalmount Avenue  
Montreal, Quebec, Canada  
H4P 1J9

**CONTACT:** Mr S R (Russ) Woodland, VP and General Manager -  
(514) 735-1536

**HISTORY:** Operating since 1949, Lucas Aerospace Canada is a division of Lucas Aerospace Inc., located in Reston, VA, and provides a fully integrated facility for design, engineering, manufacturing, assembly, testing, and service support for a wide range of aerospace products supplied primarily to the North American market.

**CAPABILITY:** The Canadian company has designed and developed a range of ancillary fuel controls - start flow control, flow dividers and dump valves for gas turbine engines. Production of main fuel pumps for PW 100 series engines under license commenced in 1985. An extensive capability exists for repair and overhaul of a wide range of equipment including fuel pumps and controls, generators and regulators, air valves and starters, actuators, relays, ignition, contactors, and industrial accessories.

**AVERAGE WORK FORCE:** Manufacturing - 73  
Engineering - 7  
Sales & Marketing - 10  
Others - 15

**GROSS SALES:** 1987 - \$10.0M +

**PLANT SIZE:** 54,000 Sq Ft

**EQUIPMENT:** Equipment includes:

- Test facilities for the repair and overhaul of both fuel and hydraulic systems, including Rolls Royce Spey and Tay engines and CF-18 F 404 engine. Products in the range up to 400 hp with drive speeds of 40,000 rpm fluid pressures of 5,000 psi dynamic and flow rates to 60,000 pph can be accommodated.
- For pneumatic products, air test pressures up to 1,000 psi and flow rates up to 2.2 lbs per second are available.
- Electrical AC and DC stands for solid state rotating equipment are similarly comprehensive.