Keywords: 6 = Computers; 7 = Electronics; 17 = Software Services; 20 = Miscellaneous; Computer Dispatch = 6, 7; Supervisory Control = 6, 7; Data Acquisition = 6, 7; Air Traffic Control Systems = 6, 20; Graphics = 17; Real Time Graphics = 17; Telex Exchange Computer Systems = 6.

Revised: Dec 83

CANADIAN AIRCRAFT PRODUCTS Ltd

Code: CAP

Address: 2611 Viscount Way
Richmond, British Columbia, Canada V6V 1M9

Contact: Mr. D C Cameron, President – (604) 278-9821

History: Canadian Aircraft Products Ltd was founded in 1955 to design and produce aircraft floats. The company is Canadian owned and has no other Canadian locations or US subsidiaries.

Capability: The company designs, engineers and fabricates aircraft components and other allied and support items for the aerospace industry in both aluminum and composites. They maintain a design and engineering office capable of producing products to stated performance specifications and military specifications. They specialize in the design and manufacture of aircraft structures, tools and jigs, support equipment-ground, ancillary equipment-air, cargo handling equipment, aircraft modifications, and aircraft systems.

Modifications to aircraft include the design and installation of additional fuel systems, seats, engine replacement, and structure changes. They have also conducted analyses relative to aircraft/airport compatibility.

Average Work Force: Total – 160

Gross Sales: 1980 – $8M

Plant Size: 75,000 sq ft

Equipment: Forming capability (3,000 ton rubber bed press), heat treating capability (3x4x18 ft gas-fired oven with water quench) and supporting services. NC milling machines, a composite facility that includes an oven (8x8x10 ft) and an autoclave (5x15 ft).

Experience: Canadian Aircraft Products Ltd has a long background of capability and expertise in repair, overhaul, manufacture and fabrication, as well as design and test of aircraft structures and components. They have designed, manufactured and repaired structures and components of a similar nature such as large aluminum boats, air cushion vehicles, etc. They have produced sheet metal fabricated parts for civil and military application. One such contract was for ammunition boxes for Kaiser Aluminum. They produce wing floats for the Canadair CL-215 water bomber and the floats for the DeHavilland Twin Otter aircraft. The company has built and structurally tested the complete airframe of the Trident Aircraft Ltd Trigull aircraft. Other contracts include the horizontal stabilizer and auxiliary fuel tanks for the Canadair CL-600 aircraft, control surfaces and airstair door for the DeHavilland Dash 7 STOL airliner, the horn assembly for the McDonnell Douglas DC-9, Saberliner detail parts for N. A. Rockwell, and the design, engineering and production of the horizontal stabilizer, elevators and rudders for the DeHavilland Dash 8 commuter aircraft.

Keywords: 1 = Aircraft; 12 = Machining; 17 = Software Services; Airframe Components = 1; Airframe Structures = 1; Cargo Handling Equipment = 1; Systems = 1; Helicopter Subsystems = 1; Repair & Overhaul = 1; Aluminum Components = 1; Composite Components = 1; Modification = 1; Tooling = 12; Jig Fabrication = 12; Rudder Assemblies = 1; Structural Analysis = 17; Structural Design = 1; Flaps = 1; Design To Requirements = 17.

Revised: Dec 83

CANADIAN ASTRONAUTICS Ltd

Code: CAL

Address: 1024 Morrison Dr
Ottawa, Ontario, Canada K2H 8K7

Contact: Dr Michael A Stott, VP, Business Development – (613) 820-8280

History: Canadian Astronautics is a rapidly growing, wholly owned Canadian company incorporated in 1974. There are no Canadian divisions and no US subsidiaries.

CAL is primarily a systems level contractor with interests in four principal business areas – Space Hardware, Radar and Communications, Computer Systems, and Military Electronics. In addition to these development and manufacturing activities, the company performs engineering design/study work in all four areas.

Capability: As previously mentioned, Canadian Astronautics is divided into four business areas with capabilities as follows:

- *Space Hardware* – CAL has an excellent capability in development and manufacture of spacecraft units and subsystems. Particular examples include antennas, RF subsystems, electro-optical equipment, battery management systems (NiCd and NiH_2), power converters (high voltage and high efficiency), and spaceworthy rad-hardened microprocessors.

- *Radar and Communications* – CAL designs and manufactures airborne SAR and SLAR equipment and has a development capability for radar of all types, particularly those involving complex signal processing. CAL additionally has capabilities in phased arrays, having developed airborne planar arrays and MLS ground antennas, along with specialized thin film microstrip components, such as precision phase shifters, corporate feeds and radiating elements. Satellite communications station upgrades/retrofits on a turnkey basis and manufacture of custom Satcom equipment is another CAL specialty.

- *Advanced Systems* – EW and ASW are the main activities of this division, but others include processors for LANDSAT-D Thematic Mapper and remote unattended navigation/communications beacons. In EW, the company has developed the Tactical Signal Simulator (TASS), which is a fully programmable dynamic scenario stimulator for ESM receiver evaluation and operator training. Technology developments include fast tuning millimeter wave VCO's for ECM and simulator applications. In ASW, CAL has developed programmable sonobuoy processing systems and advanced processor architecture systems.

- *Commercial Systems* – The main activity of this division is the supply of Search and Rescue Satellite (SARSAT) ground stations. CAL provides a full capability station including processing channels for 121.5, 243, 406 MHz, and it is capable of remote unattended fully automatic operation. Other activities include custom software development, typically for real time signal or data processing applications. Experience is available in the normal languages, including Ada, and CAL has the capability to develop software to MIL SPEC 1679.