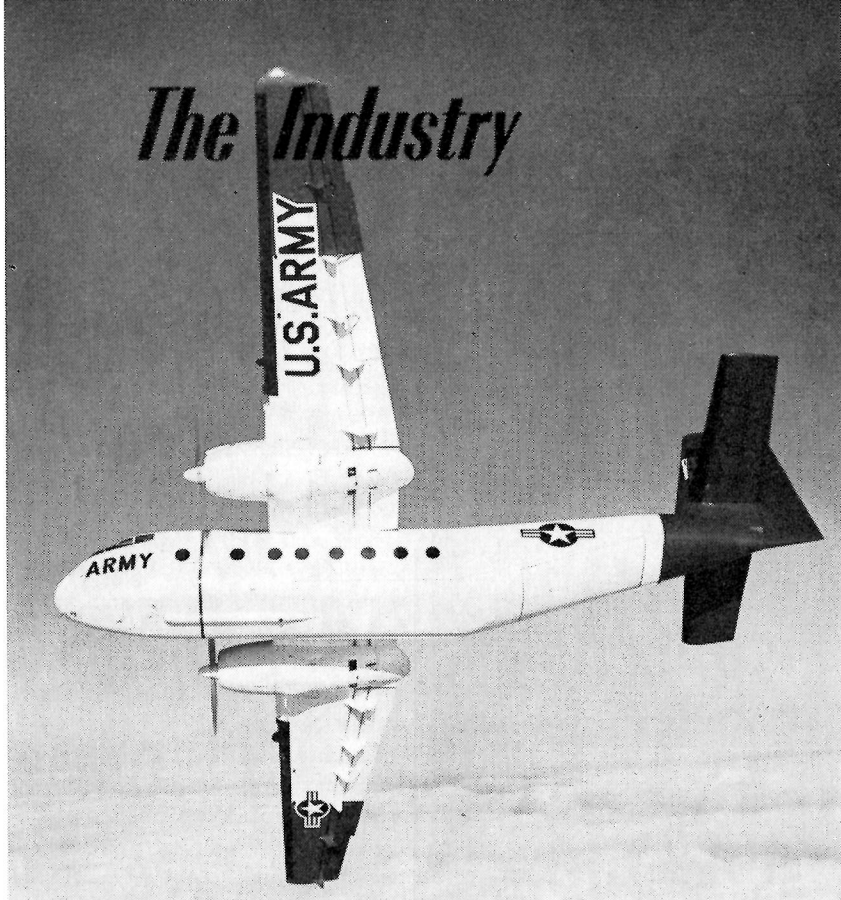


The Industry



DE HAVILLAND AC-1 CARIBOU is shown in its striking red, white and black U.S. Army Arctic livery. Recent Army re-orders have raised the number of Caribou in use or on order to 27. An Army general recently told aviation writers Army had a long-term requirement for about 300 Caribou.

Bristol Prospers

The Bristol Aeroplane Co. Ltd., Filton, England, reports that its Canadian subsidiary, Bristol Aero Industries Ltd., recorded sales for the last fiscal year in the area of \$56 million, while net profits were approximately 25% in excess of the previous year; and the capital, reserves and surplus at the end of the year showed a value of over \$18.9 million.

Activity in Montreal and Vancouver was concentrated on engine overhauls for the airlines and for the RCAF. In Winnipeg, overhauls of CF-100, Expeditor and Mitchell aircraft were supplemented by a growing volume of sub-contracts. Some of these are American contracts gained under the U.S.-Canadian production-sharing policy.

A special projects group established in 1958 was strengthened during the year for the purpose of furthering diversification and thus replacing as may be necessary conventional aircraft and engine work by newer developments associated with communications, aerial survey and high altitude research.

The Aviation Service Division developed its airport maintenance and

handling activities. In its early stages, this division's financial results were disappointing. However, in more recent times the company has been awarded contracts by the major trans-Atlantic carriers.

The most important development in the past year was the acquisition of 46½% of the issued share capital of Spartan Air Services Ltd., by Bristol.

Marconi Dopplers for CPA

Canadian Pacific Airlines has announced intention of buying the Canadian Marconi Co.'s airborne Doppler navigation aid known as the CMA-623. It was announced at the same time that the airline had placed an order for the navigation computer which is used in conjunction with the CMA-623. The two go to make up an advanced navigation system for high-speed jetliners.

It was erroneously reported in the May issue of *AIRCRAFT* that CPA had purchased Collins Doppler equipment for its DC-8's.

Said a Marconi spokesman: "It gives great satisfaction to note that although the basic system has been

adopted by four other major world airlines, this purchase, the fifth, marks the second occasion within a few weeks that a major international airline has decided upon the Canadian Marconi's total system, i.e., the sensor and the computer."

Deliveries of CPA's new DC-8's are scheduled to begin in 1961, and will be fitted with twin sensor and computer systems.

Common Market?

The Aircraft Industries Association of the U.S. is studying a proposal to determine the possibility of establishing a common market between the U.S. and Canada on aviation products, the AITA reports.

AITA representatives who attended a recent export meeting of the AIA say that all the U.S. manufacturers of light planes were in favor of a common market, and that two of the larger firms also indicated their approval. An ad hoc committee was formed by the AIA to investigate how a common market could be achieved within the framework of existing U.S. tariff legislation.

Starfighter Contracts

Up to April 27, contracts totalling \$239,621,209 has been awarded in connection with the CF-104 program, Defence Production Minister O'Hurley informed the Commons.

Estimated production cost of a completely equipped CF-104 is \$1,032,000 and of a CF-104D trainer \$1,409,800. These prices don't include armament.

It is expected, Mr. O'Hurley said, that CF-104's will be coming off the Canadair line by the end of February, 1961.

Asked whether subsidies will be paid to industry so that CF-104 components will be made in Canada, the minister replied: "In appropriate cases industry is being assisted to make components in Canada."

"The successful prime contractor included in his proposal a comprehensive outline of its recommendations for subcontract arrangements. These arrangements contemplated a wide distribution of subcontract work. The department is being particularly careful to monitor the prime contractor to ensure this wide distribution of sub-contracts and, in fact, the term of the contract requires that the prime con-



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*Patents issued and pending

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tractor receive approval by the department for all major subcontracts."

The contracts listed:

Lockheed Aircraft Corp., \$7,760,000 for licence and technical assistance agreement; \$19,238,278 for engineering and reconfiguration agreement; \$19,654,017 for 14 trainers.

Canadair Ltd., \$91,074,023 for CF-104 production; \$766,176 for agency agreement.

Orenda Engines Ltd., \$85,128,000 for production of J-79-7 engines.

Canadian General Electric, \$3,400,000 for licence and technical assistance agreement; \$45,000 for GE tab computer; \$25,000 for GE missile in-range computer; \$97,000 for transmission, hydraulic pressure.

Computing Devices of Canada, \$500,000 for PHI Mark 5 (interim contract, ceiling \$3,985,940).

Litton Industries, \$3,000,000 for inertial navigation system (interim contract, ceiling \$25,200,000).

Honeywell Controls, \$1,600,000 for automatic flight control system (interim contract, ceiling \$10,821,700).

Canadian Westinghouse, \$1,000,000 for NASARR (interim contract).

Northern Electric Co., \$303,000 for TACAN tooling; \$2,129,340 for TACAN production.

Railway & Power Engineering, \$1,454,594 for attitude indicator and turn rate sensor.

Aviation Electric Ltd., \$176,000 for accelerometer recording; \$96,408 for transmitter, fuel flow; \$18,990 for indicator, oil pressure; \$25,144 for indicator, tail pipe temperature; \$46,415 for indicator, hydraulic pressure; \$820,493 for generator Bendix 28B23; \$564,893 for voltage regulator; \$267,480 for control panel; \$99,468 for accelerometer Pioneer central.

Garrett Mfg. Ltd., \$250,000 for air data computer.

Waltham, \$62,500 for clocks.

On May 4, DDP announced Canadair has awarded a \$1,350,000 sub-contract to Dominion Rubber Co. for fuel tanks, to be made at the company's Kitchener plant.

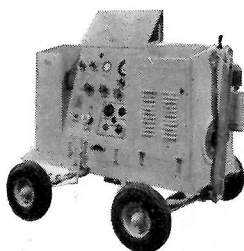
GE Production Sharing

A two-day symposium was held late last month by the General Electric Co. of the U.S., to which was invited over 100 Canadian companies that have undertaken work for the DDP, and are considered capable of handling the

GROUND SUPPORT EQUIPMENT

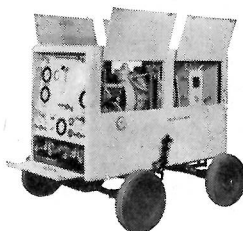
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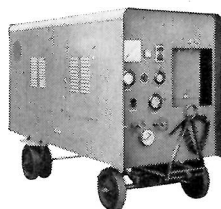
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Contracts Awarded

Contractors awarded business in excess of \$10,000 by the Department of Defence Production during the period March 1-31, 1960, include the following. The list does not include orders placed by the Department outside Canada, or with other agencies or increases in orders placed earlier—nor do orders classified as secret appear here.

Names appearing in bold face are current aircraft advertisers.

Computing Devices of Canada Ltd., Ottawa, \$230,000 for repair & overhaul of instruments and accessories during year ending March 31/61.

Computing Devices of Canada Ltd., Ottawa, \$10,000 for telemetry and data reduction equipment spares during year ending March 31/61.

De Havilland Aircraft of Canada Ltd., Downsview, Ont., \$60,380 for airframe spares.

De Havilland Aircraft of Canada Ltd., Downsview, Ont., \$335,000 for repair & overhaul of aero engines during year ending March 31/61.

De Havilland Aircraft of Canada Ltd., Downsview, Ont., \$10,000 for repair & overhaul of airframes and airframe components during year ending March 31/61.

De Havilland Aircraft of Canada Ltd., Downsview, Ont., \$20,000 for technical representatives during year ending March 31/61.

De Havilland Aircraft of Canada Ltd., Downsview, Ont., \$23,488 for research contract.

De Havilland Aircraft of Canada Ltd., Downsview, Ont., \$10,000 for aero engine spares during two years ending March 31/62.

Dowty Equipment of Canada Ltd., Ajax, Ont., \$669,100 for repair & overhaul of undercarriage equipment and aircraft accessories during year ending March 31/61.

Dowty Equipment of Canada Ltd., Ajax, Ont., \$28,661 for aircraft wheel and brake assembly spares.

Edo (Canada) Ltd., Cornwall, Ont., \$46,054 for sonar testing equipment.

Fairey Aviation Co. of Canada Ltd., Dartmouth, N.S., \$1,076,000 for repair & overhaul of aircraft and airframe components during year ending March 31/61.

Fairey Aviation Co. of Canada Ltd., Dartmouth, N.S., \$1,185,000 for repair & overhaul of aircraft and airframe components, special investigations and technical studies during year ending March 31/61.

Fairey Aviation Co. of Canada Ltd., Dartmouth, N.S., \$15,000 for repair & overhaul, ultrasonic cleaning, element bubble testing, re-assembly and testing of micro filters during year ending March 31/61.

Fairey Aviation Co. of Canada Ltd., Dartmouth, N.S., \$60,000 for repair & overhaul of airframes and airframe components during year ending March 31/61.

Fairey Aviation Co. of Canada Ltd., Dartmouth, N.S., \$25,000 for airframe spares during two years ending March 31/61.

Fairey Aviation Co. of Canada Ltd., Dartmouth, N.S., \$10,000 for maintenance service to aircraft, special investigations and technical studies during year ending March 31/61.

Fairey Aviation Co. of Canada Ltd., Dartmouth, N.S., \$180,000 for mobile repair parties during year ending March 31/61.

Garrett Mfg. Ltd., Rexdale, Ont., \$10,000 for repair & overhaul of aircraft instruments and accessories.

Godfrey Engineering Co. Ltd., Montreal, \$19,384 for air conditioner and pressure tester.

Godfrey Engineering Co. Ltd., Montreal, \$58,300 for repair & overhaul of airframe components during year ending March 31/61.

Godfrey Engineering Co. Ltd., Montreal, \$345,500 for repair & overhaul of cabin superchargers, aircraft cooling material, AirResearch material and ancillary equipment during year ending March 31/61.

Heatex Ltd., Montreal, \$170,000 for repair & overhaul of aircraft cooling material during year ending March 31/61.

Heroux Machine Parts Ltd., Montreal, \$10,000 for repair & overhaul of airframe components during year ending March 31/61.

Honeywell Controls Ltd., Toronto, \$798,000 for repair & overhaul of instruments and accessories during year ending March 31/61.

Imperial Oil Ltd., Ottawa, \$25,405 for aviation gasoline during year ending March 31/61.

Walter Kidde & Co. of Canada Ltd., Montreal, \$13,272 for spares for machine guns.

Walter Kidde & Co. of Canada Ltd., Montreal, \$11,000 for repair & overhaul modification, recharging and retesting of airborne fire fighting material during year ending March 31/61.

Lucas-Rotax Ltd., Montreal, \$2,150,000 for repair & overhaul of airframes and aero engine spares, electrical and miscellaneous material during year ending March 31/61.

Maritime Helicopters Ltd., Montreal, \$14,760 for rental of helicopter.

Martin-Baker Aircraft Co. Ltd., Collingwood, Ont., \$100,000 for repair & overhaul of aircraft ejection seats and components during year ending March 31/61.

A. R. Monteith Ltd., Toronto, \$11,598 for aircraft paint.

D. Napier & Son (Canada) Ltd., Montreal, \$40,000 for technical representatives during year ending March 31/61.

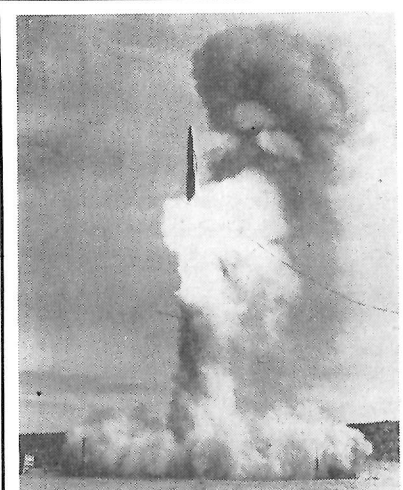
Northwest Industries Ltd., Edmonton, \$830,000 for repair & overhaul of airframe spares during year ending March 31/61.

Northwest Industries Ltd., Edmonton, \$1,769,000 for repair & overhaul of airframes and airframe components during year ending March 31/61.

Orenda Engines Ltd., Toronto, \$15,000 for repair & overhaul of aero engines and aero engine components during year ending March 31/61.

Orenda Engines Ltd., Toronto, \$23,782 for aero engine spares.

Orenda Engines Ltd., Toronto, \$12,500 for



TETHERED FIRING: Shown is a USAF Minuteman ICBM being launched from an underground silo at Edwards AFB. Cables restrain missile from free flight after it rises several hundred feet. Tethered firings are a part of an extensive test program.

aero engine spares during two years ending March 31/61.

Prairie Equipment & Radiators Ltd., Winnipeg, \$20,000 for repair & overhaul of aircraft cooling material during year ending March 31/61.

R.C.A. Victor Co. Ltd., Montreal, \$95,253 for installation of radar sets.

Rolls-Royce of Canada Ltd., Montreal, \$120,000 for repair & overhaul of jet engines and engine components during year ending March 31/61.

Rolls-Royce of Canada Ltd., Montreal, \$3,460,000 for repair & overhaul of aero engines and aero engine components during year ending March 31/61.

Rolls-Royce of Canada Ltd., Montreal, \$200,000 for repair, overhaul and storage of turbo jet engines and components, field service representatives, special investigations, technical studies and spare parts during year ending March 31/61.

Rolls-Royce of Canada Ltd., Montreal, \$308,000 for repair & overhaul of aero engine spares and accessories and provision of spare parts during year ending March 31/61.

Servomechanisms (Canada) Ltd., Toronto, \$23,522 for intervalometers.

Sperry Gyroscope, Ottawa, \$455,000 for repair & overhaul of instruments and accessories during year ending March 31/61.

Sperry Gyroscope, Ottawa, \$14,046 for modification of gyro compass.

Standard Aero Engine Ltd., Winnipeg, \$10,000 for repair & overhaul of aero engines and aero engine components during year ending March 31/61.

Standard Telephone & Cables Mfg. Co. (Canada) Ltd., Montreal, \$80,012 for transmitters.

Timmins Aviation Ltd., Montreal, \$340,576 for inspection & repair of aircraft.

York Gears Ltd., Toronto, \$208,000 for repair & overhaul of gear boxes and associated equipment during year ending March 31/61.