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AVRO ARROW



PRODUCT OF AVRO AIRCRAFT LIMITED



AVRO AIRCRAFT LIMITED

INCORPORATED IN CANADA
100 KING STREET WEST, TORONTO, ONTARIO

For Release: On Receipt

Avro Aircraft Limited is Canada's largest employer in the aircraft industry, with approximately 9,600 employees engaged

on research, design, development and production.

The company is a single integrated unit with all the necessary facilities to design and manufacture an aircraft from initial research through to delivery and subsequent service in the field

Administration, engineering, production, service and overhaul and repair facilities cover a total of 1,600,000 sq. ft. covering 43 acres.

Operations of the company are carried out through the following organization: Engineering Division, Manufacturing Division, Sales and Service Division, Flight Operations Division, Quality Control and Inspection Division, Finance Division, Industrial Relations Division.

In addition to its own operations, Avro Aircraft is the focal point for a network of subcontractors and suppliers from the East to the West Coast, supplying large sections of the aircraft structure and hundreds of the components. Many thousands of personnel in these supporting companies rely directly on Avro programs for employment.

Avro Aircraft, although only established in 1945, has a record of diversified achievement in design, development, production, overhaul and modification, that would have taxed the resources of older more experienced firms.

World War II aircraft were re-engineered and converted to later military and civilian uses all the engineering and much of the actual conversion of Lancaster bombers into radar equipped Maritime reconnaissance aircraft and other variants was carried out by Avro Aircraft. Modification programs have involved Dakotas, B.25 Mitchells, Venturas and Sea Furies (for the Royal Canadian Navy).

In addition, Avro Aircraft has a number of miscellaneous products to its credit aircraft system trainers which simulate various CF-100 systems for the RCAF air and ground crew training; design and manufacture of wing tip rocket pods and wing tip fuel tanks design and manufacture of specialized ground handling equipment.

Avro Aircraft's major achievements have been the design and development of three completely different types of aircraft. First a commercial jet-powered transport - the Jetliner. Second, the twin-jet CF-100 all-weather interceptor for the RCAF and with it, development of various systems, such as armament (gun, rocket, guided missiles) and electronics, etc. Third, the supersonic Avro Arrow which was unveiled to the public on Oct. 4, 1957.

The Jetliner - first commercial jet-powered transport in North America - was set aside at the outbreak of the Korean War to permit concentration on development of the CF-100.

The CF-100, designed to meet an RCAF specification for a long-range, all-weather, day and night interceptor with automatic radar fire control system, is referred to as the outstanding aircraft of its type in operational service. The CF-100 is on constant alert in Canada in multi-squadron service with the RCAF, and in close association with the USAF Strategic Air Command.

Late in 1956, at the request of the NATO Military Committee, plans were completed by the Canadian Government for the start of transfers of Mark 4 rocket-firing CF-100s to augment the RCAF NATO strength in Europe. Four squadrons of CF-100s are now on round-the-clock alert at bases in France and Germany.

The aircraft is meeting a specific requirement for an effective night fighter because of its unique fire control system that automatically seeks out the enemy, locks on, releases a deadly salvo of rockets and guides the aircraft back to its base.

In 1957 the Belgian Government announced that it had selected the CF-100 for its air force to meet a vital requirement for all-weather fighters. By December of that year the first 15 aircraft had been delivered to the Belgian Air Force and were on operational duty.¹

Since its initial production days, the operational life of the Avro CF-100 has been periodically extended through nine variants by new developments covering its primary role as an interceptor, and subsidiary roles of training plane and target tug. Meanwhile, Avro's Engineering Division is approaching final concept of the tenth, missile-carrying variant of this all-Canadian jet military aircraft.²

Avro Aircraft's current major project, the Avro Arrow - a supersonic delta-wing, all-weather interceptor which will succeed the CF-100 - is one of the most advanced fighters of the supersonic era.

Avro has currently completed a \$5,000,000 program on expansion of plant facilities, with much of the program being directly connected with the Arrow.

Original Document Released : October 4th, 1957

Internet Document Released : Pre-Release

Corrections

Notes

¹ - An early version of this paragraph reads:

Earlier this year the Belgian Government announced that it had selected the CF-100 for its air force to meet a vital requirement for all-weather fighters.

² - The last sentence of this paragraph does not appear on later versions of this document.

If you have any comments, corrections, or suggestions regarding this or other Aerospace Foundation of Canada pages, please contact Kemp Watson (kemp@watson.com) or call the A.H.F.C. in Toronto, Canada at (416)-xxx-xxxx.