

Top Secret

"S". 60-5-11, V.2

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15th November, 1944.

TO:

CABINET WAR COMMITTEE -

The undersigned has the honour to report:

THAT in keeping with the high standard of achievement of Canadians during the present war in the field of air combat as well as modern aircraft production, it is desirable that every effort be made to insure that the Royal Canadian Air Force is equipped in the future, with the most modern types of combat aircraft;

THAT heretofore the development of the aircraft industry in Canada has been handicapped chiefly because of:

- (a) The fact that there are no aeroplane engines produced in this country;
- (b) The scarcity of technical personnel skilled in design, engineering and production of both airframes and engines. Skilled technicians have been developed in Canada but these have almost invariably departed for other fields, chiefly the U.S., because of the lack of creative opportunity in this country;

THAT present conditions and developments are such as to present a favourable opportunity to overcome both of these handicaps inasmuch as a Crown Company, Turbo Research Limited, is being established in Canada to develop the art of designing and manufacturing gas turbine engines and the number of skilled technicians in aircraft and engine design and production now located in Canada is at an unprecedented high level;

THAT the Department of National Defence for Air having prepared specifications for a gas turbine propelled aircraft which embody as far as possible all the desirable features of an ideal single-seater fighter aircraft, it is desired to negotiate through the Department of Munitions and Supply two contracts as follows:

- (a) With Turbo Research Limited for the design and manufacture of 20 gas turbines suitable for assembly to and use with an airframe of the type referred to in (b);
- (b) With an airframe manufacturer to be selected for 3 airframes of special design suitable for use in conjunction with a gas turbine engine;

THAT the fully developed and final prototype aircraft might then be considered for later production as a single-seater fighter and also as a basis for the eventual development of two other related service types, namely, a photographic reconnaissance aeroplane and a fighter bomber aircraft;

THAT it is understood that throughout all stages of designing, production and testing the closest co-operation is to be observed between Turbo Research Limited, the selected airframe manufacturer and this Department;