

STATEMENT OF WORK

PROJECT 1794

PART 1. Engineering Program

- 1.1 The contractor shall conduct studies and test programs to supplement those completed during June 1956 under Contract AF33(600)-30161. The contractor shall also construct the test rigs, manufacture the models or other test items, provide instrumentation and furnish the facilities required to accomplish this program, except for certain Government furnished test facilities as approved by the Contracting Officer, Hq AMC, when deemed necessary for the advancement of the program and to be in the best interest of the USAF.
- 1.1.1 The contractor shall conduct tests of wind tunnel models to
 have completely define the aircraft characteristics throughout Mach Nr range of 1 to 4.
- 1.1.2 The contractor shall conduct tests of wind tunnel models to determine aircraft characteristics in the transonic speed range.
- 1.1.3 The contractor shall conduct tests of subsonic wind tunnel models. The problems of trim and balance and the practical application of the jet flap principle shall receive particular emphasis.
- 1.1.4 The contractor shall conduct tests to investigate hover and transition to forward flight.
- 1.1.5 The contractor shall conduct studies and tests to investigate the air and exhaust gas flow internal to the aircraft to include:
 - 1.1.5.1 Intake efficiency
 - 1.1.5.2 Control system operation
 - 1.1.5.3 Diffuser efficiency
 - 1.1.5.4 Nozzle efficiency

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1.1.5.5 Exhaust systems





1.1.5.6 Control shutter test?

1.1.5.7 Overall system efficiency

- 1.1.6 The contractor shall accomplish the development and test of the propulsion system components required to achieve supersonic flight.
- 1.1.7 The contractor shall conduct studies and tests to determine the effect of operating temperatures on structural rigidity and aeroelastic characteristics of the aircraft.
- 1.1.8 The contractor shall conduct analyses and tests to investigate the flutter and vibration characteristics of the aircraft.
- 1.1.9 The contractor shall conduct analyses and tests to investigate the effect of noise on structure, equipment and personnel.
- I.1.10 The contractor shall conduct an analysis of the propulsion system to include design point, off design point and transient operation. Operation of the propulsion system as a ramjet (in the "hot" condition) will be included, together with consideration of the effect on performance of the ducted fan system during this phase.
- 1.1.11 The contractor shall conduct design studies to apply the AVRO Aircraft vertical take-off design concept to the following weapon systems:
 - 1.1.11.1 Reconnaissance
 - 1.1.11.2 Interceptor
 - 1.1.11.3 Tactical bomber
- 1.1.12 The contractor shall formulate a Weapon System Development Plan for the system under Part 1.1.11.1.
- 1.1.13 The contractor shall accomplish analytical studies of the effect of displacement of exhaust jets on the aerodynamic characteristics of the aircraft, ill formulate test programs to investigate this phenomenon and will conduct such tests as are approved by the USAF.

1.1.14 The contractor shall conduct studies to determine performance de data and to determine limits on performance and physical parameters associated with the type of aircraft being investigated.

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PART 2. Data

2.1 Program Planning Report

The contractor shall prepare and submit to the Commander, Detachment #1, Hq Air Research & Development Command, Attn: RDZSBA, Wright-Patterson AFB, Chio, for approval, a Program Planning Report for the work required by Part 1. The Program Planning Report shall include a description of methodology, work definition, time scheduling, and cost and manhour data by sub-parts. Ten (10) copies of the Program Planning Report shall be furnished as soon as possible, but no later than

2.2. The contractor shall submit to Hq Air Research & Development Command, ttn: RDZSBA, for approval, detailed specifications of the tests to be accomplished on ender Part 1. Test specifications will provide information test objectives, facility model requirements, characteristics, test conditions, instrumentation requirements, data collection and reduction, etc. Test specifications will be furnished in accordance with the time schedule of the approved Program Planning Report.

2.3 Bi-Monthly Progress Report.

The contractor shall furnish by the 20th day of the month following the reported two (2) month period, ten (10) copies of Bi-Monthly Progress Reports rescenting a summary of: Work performed, percentage of task accomplished, results obtained, problems encountered and the budgetary status of the program. Bi-Monthly Progress Reports will be delivered to Hq Air Research & Development Command, ATTN: RDZSBA. The first Bi-Monthly Progress Report will be due

2.4 Technical Report

2.4.1 The contractor shall furnish to Hq Air Research & Development mmand, Attn: RDZSBA, twenty-five (2*) copies of Technical Reports in accordance with

the time schedule of the approved Program Planning Report, but in any event not later than 1 October 1958.

2.4.2 The Technical Reports shall present the results of the study and test programs required by Part 1 and shall include, but not be limited to:

- 2.4.2.1 A clear statement of the purpose of the study.
- 2.4.2.2 A description of the method of approach to solution of the problem.
- 2.4.2.3 A statement of assumptions made with an evaluation of validity.
- 2.4.2.4 A presentation of results obtained.
- 2.4.2.5 An evaluation and interpretation of these results.
- 2.4.2.6 Performance trade data shall include the factors of speed, range, altitude, aircraft weight, aircraft size and payload, together with a discussion of limits on these factors.

2.4.2.7 Design Information

- 2.4.2.7.1 Plot of area distribution cut at M=1
- 2.4.2.7.2 Tabulation of wetted areas
- 2.4.2.7.3 Zero lift drag buildup, components and total.
- 2.4.2.7.4 Plot of dC_D/dC_L^2 vs M
- 2.4.2.7.5 Plot of a.c. travel vs M
- 2.4.2.7.6 Plot of C.G. travel and analysis of effects.
- 2.4.2.7.7 Variation of dC_/davs M
- 2.4.2.7.8 Low speed airplane sfficiency factor "e"

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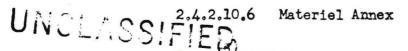




- 2.4.2.7.9 Take-off, landing and transition calculations.
- 2.4.2.7.10 Plot of CT vs M
- 2.4.2.7.11 Mission profiles showing altitude
 ws distance
- 2.4.2.7.12 Group weight statement and weight substantiation report.
- 2.4.2.7.13 V-n diagram with gust considerations
- 2.4.2.7.14 Three-view drawings and inboard profiles with section views as required by Part 1.1.11.
- 2.4.2.8 Preliminary specifications for subsystems or components to be produced by the prime contractor, by associate contractors or the Government under provisions of AF Regulation 70-9.
- 2.4.2.9 General specifications for new or improved materials including requirements dates and estimates of their availability.
- 2.4.2.10 The Weapon System Development Plan required by

 Part 1.1.7 shall include the following portions

 as specified in ARDC Manual 80-4 dated 1 July 1955:
 - 2.4.2.10.1 General Design Specification
 - 2.4.2.10.2 Description
 - 2.4.2.10.3 Schedules
 - 2.4.2.10.4 Test Annex
 - 2.4.2.10.5 Test and Test Support Aircraft Annex







2,4,2,10.7 Facilities Annex

2.4.2.10.8 Personnel & Training Annex

2.4.2.10.9 Test Item Annex

2.4.2.10.10 Cost Estimate Recapitulation

2.4.2.11 Factual data, in terms of facilities, equipment and personnel, as to the ability of AVRO Aircraft Limited to accomplish the Weapon System Development. The influence of other programs at AVRO Aircraft, current or contemplated, will be considered.

2.5 The contractor shall furnish to Hq Air Research & Development Command,
Attn: RDZSBA, one (1) 1/40 scale demonstration model of the AVRO VTOL aircraft which may
disassembled to disclose the interior arrangement of the vehicle and which will
illustrate the principles of operation.

PART 3. Project Review

The contractor shall present a review of the status of the program to representatives of the USAF and other interested organizations approved by the USAF at six (6) month intervals during the course of this contract with locations and dates to be mutually established by the Contracting Officer and the contractor. The purpose of the project review will be to show results accomplished, describe current status, discuss major problems encountered, and to determine direction of future effort.

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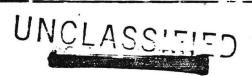
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- 5. The Directorate staff agencies and the Laboratories are requested to:
 - (a) Review the inclosed Work Statement and recommend changes to the tests and analyses prescribed to insure accomplishment of the objective defined in paragraph 4 above.
 - (b) Review the requirements for data to be submitted by the contractor to insure adequate coverage and proper form for evaluation purposes and other laboratory uses. RDZSBA should be advised of any recommendation for change in data requirements.
 - (c) Prepare Development Requirements for the various subsystems involved in the different weapon system applications as contained in paragraph 1.1.11 of the Work Statement. The purpose of this laboratory generated information is to guide the contractor in accomplishment of the Work specified.





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	is a preliminary	work statement co	examing the test
program and design studies for	the AVRO VTOL at	rcraft. Paragraph	1.19 states the
contractor shall conduct an an	alvsis and tests	to investigate the	effect of noise on
structure, equipment, and pers	onnel.		4
2. The acoustical noise	study program is	satisfactory. It	is recommended that
this program be conducted as s	oon as possible s	o design changes c	an be made if the noise
levels are excessive.			
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r rt No. Revised	Branch Chief H A Magrath
1. The work statement for USAF Continuati	on in project 1794 with AVRO Aircraft
has been reviewed from the vibration standpoint	Based on the earlier review of Final
Development Summary Report I. D. No. 56-RDZ-199	
from 2 April through 30 May, it was recommended	that in the event the Air Force anticipates
wither development of this WTO aircraft, a sp	ecial program be initiated to study the
vibration aspects of the aircraft including vib	rations which may be excited as a conse-
quence of the complex propulsion system duct co	nfigurations.
2. Part 1.1.8 of the work statement state	s. " The Centractor shall conduct analyses.
and tests to investigate the flutter and vibrat	ion characteristics of the aircraft " It
is recommended that the following be also added	to part 1.1.8: "The analyses and tests
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be sent to this office. Lt E. A. Weber, WCLSD-2
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aireraft design studiés include a
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(U) Review of Work Statement

RDZSBA

WCISD-2

31 Aug 56

ATTN: Major W. R. Stephens

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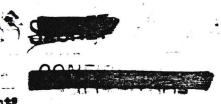
- 1. In reply to Suborder Mr RIZSBA RA-56-43 dated 15 August 1956, requesting a review of the proposed Project 1794 Statement of Work, the following comments are submitted by the Aircraft Laboratory:
- 2. As a result of the recent evaluation of the AVRO Project, so many areas of doubt in the development of such a configuration exist that it appears untimely to study this in specific veapons systems. So many basic concepts of the design remain to be proven that it should not be considered as a combat vehicle at this time.
- 3. It is believed that this Statement of Work is too general in the following areas. Under paragraph 1.1.11, it should be stated that the contractor should present sign information as defined in MIL-D-803h and MIL-D-1798h when applying this VTCL uesign concept to the weapon systems which are listed. Thus the data will be presented so that it will be comparable to data submitted by other contractors. Submission of the performance data should be in accordance with MIL-C-5011A.
- 4. Under paragraph 2.4.2.7, a requirement for substantiation of the various drag factors, as well as thrust, should be included.
- 5. The contractor should be furnished with detailed requirements for the three weapon systems applications contained in paragraph 1.1.11 of the Work Statement. Volumes and weights of necessary armament and electronic equipment should also be spelled out as much as possible.
- 6. It is recommended that the study under paragraph 1.1.10 include a determination of the maximum fuel stowage compartment temperature. A method of isolation or insulation should be devised to provide fuel stowage under suitable conditions of temperature.
- 7. There should be some portion of the study devoted to escape systems in the aircraft. Also, it should be determined whether or not the aircraft will be stable enough to permit the pilot to escape in event of power plant failure at high Mach numbers.

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(U) Review of Work Statement

- 8. It is recommended that the contractor initiate a study to determine what kind of a surface would be required for this aircraft to land on. Reference should be made to HIAD, Valume I. Section 3.4.4. Also, the contractor should make a study of ground handling requirements and use these requirements in designing the landing gear.
- 9. Paragraph 1.1.7 should be changed to include the effect of operating temperatures, including those due to aerodynamic heating on the thermal stresses, strength, structural rigidity and servelastic characteristics of the aircraft.
- 16. Based on the earlier review of Final Development Summary Report I. D. Nr 56RDZ-19954, severing work on the subject project from 2 April through 30 May, it was recommended that in the event the Air Force anticipates further development of this aircraft, a special program be initiated to study the vibration aspects of the aircraft including vibrations which may be excited as a consequence of the complex propulsion system duct configurations.
 - li. Part I.1.5 of the work statement states. The Contractor shall conduct analyses and tests to investigate the flutter and vibration characteristics of the aircraft. It is recommended that the following be also added to part 1.1.8: The analyses and tests shall include effects of forced vibration due to the propulsion system and duct system on structure, equipment and personnel.
 - 1 Incl SO Mr RDZSBA RA-56-13.15Aug56(8)

UNCLASE

HENRY T. ROHL
Chief, Fighter Development Section
Design Branch
Aircraft Laboratory

56RDZ-24809