

S E C R E T

S1038CN-183-5 TD (AMTS/CAE)

M E M O R A N D U M

10 Mar 58

AMTS

Arrow Aircraft - Armament Installations  
Genie (MB-1) Installation

*VCAS front part*

*3 AS*

*2 note para 7*

*CRD VCAS*

*1.4*

1 It is considered appropriate that you be advised of the current status of the subject installation for two reasons:

- (a) It is understood that members of the CAS' staff have been under the impression that this sub-division was implementing a Genie installation on the Arrow.
- (b) It is understood that DADR has submitted to COR a suggestion that Air Council reconsider the decision to have a Genie capability designed into the Arrow Electronic System (ASTRA 1).

2 For either or both of the above reasons, the subject matter could come before Air Council and it was felt that you would wish to have the views of this sub-division on the matter.

3 Reference is made to:

- (a) Minutes of the 259th Meeting of the Air Council, 6 May 57.
- (b) Minutes of the 262nd Meeting of the Air Council, 16 May 57.

4 The decision recorded in reference 3(a) above, Item 1278, para 13(b), as approved in reference 3(b) above, has been interpreted by my staff to mean that the MB-1 capability should be designed into the Arrow Weapon System. Accordingly, AIR 7-4 Issue 4 (Weapon System, Arrow), 28 Jun 57 states, "The installation of MB-1 rockets shall be engineered by the co-ordinating contractor as soon as design information is received from the Department", and AIR 7-6 Issue 2 (Development of an Electronic System for the Arrow Aircraft), 28 Jun 57 states, "The system shall provide for the preparation and firing of the Sparrow II and Genie (MB-1)".

5 To implement the specifications, the Statement of Work with RCA for the Arrow Electronic System includes the accommodation of the MB-1 as well as Sparrow II. However, only limited information on the MB-1 has been released to RCA by the USAF until very recently, so the RCA design for accommodating the MB-1 has been held up somewhat.

6 With regard to the Arrow aircraft installation, the amount of restricted information available to AVRO has not permitted the design of an installation. However, AFHQ letter S1038CN-180 (AMTS/AAWS), dated 13 Jan 58, requested AVRO Aircraft Ltd. to submit

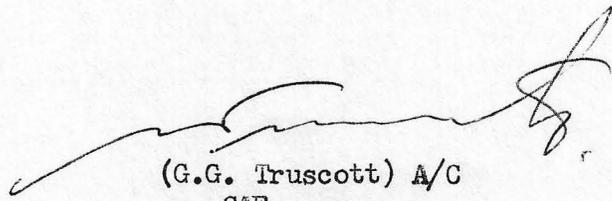
*EA/AMTS*

*for AMTS's return and hold in readiness for my use  
and in the interim as CAE's interpretation appears to be consistent  
policy guidance contained in Air Council Minutes ...../2  
Jennell to D/AMTS 11 Mar/58*

to the RCAF by 1 May 58, an engineering proposal for the installation of the Genie rocket on the Arrow 2. It was intended that the foregoing proposal in conjunction with the results of an Arrow-Genie feasibility study being conducted by DSE and CARDE, would provide the RCAF with the information required to decide on the provision of the Genie carriage and launch capability in the Arrow aircraft.

7 In summary,

- (a) the MB-1 is being accommodated in the Arrow Electronic System, the restricted data has recently been released to RCA by the USAF and the programme has been funded;
- (b) AVRO Aircraft have been requested to submit an engineering proposal for the installation of the MB-1 on the Arrow 2 aircraft by 1 May 58, but the engineering design and development is not in the programme at this time.



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cc: DArME