

SECRET

PA

→ S1038CN-183-5 (AMTS/AAWS)


Ontario.

7 Jan 58

Air Member,  
Canadian Joint Staff,  
2450 Massachusetts Ave, NW,  
WASHINGTON 8 DC, USA.

Arrow Weapon System  
MB-1 Installation Data

- 1 On 11, 12 and 13 Dec 57 a group of senior RCAF officers visited Colorado Springs for a briefing on the North American Air Defence (NORAD) programme. During this briefing it was established that the USAF have installed the MB-1 (GENIE) on the F102 and F89J and that an improved MB-1 is intended for the F-106.
- 2 There is an RCAF requirement for the installation of this weapon on the Arrow and as a result of the above visit this installation development is being accelerated. To facilitate this installation your staff is requested to:
  - (a) determine which MB-1 type weapon is intended for the USAF F-106;
  - (b) obtain detailed engineering and installation data of the type described in attached sheet on weapon determined by sub-para 2(a).
- 3 If difficulty is experienced in obtaining the above information may it be determined if this data would be more readily released to an AAWS staff officer with a direct "need to know". It should be noted, however, that the data required is of a non-restricted nature.
- 4 Your immediate action on this request would be appreciated.
- 5 For your information, it is intended that follow-up visits by appropriately cleared contractor personnel be arranged as the need for specific and detailed engineering data arises.

  
(H.K. Hollingsworth) W/C  
for CAS

RT/mmc  
AMS2-2-2  
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ENGINEERING AND INSTALLATION DATA

- 1 External dimensions - include c.g. and suspension pts.
- 2 Weight
- 3 Type of carriage - external
  - semi-submerged
  - submerged
- 4 Type of launcher - complete details required
- 5 Method of launching - extended on launcher
  - ejected from fuselage
- 6 Average Velocity (average velocity with respect to carrier as a Function of Airspeed and air density)
- 7 Type of Arming - time delay
  - proximity
- 8 Gravity drop
- 9 "F" or lead distance required for lead-collision attack
- 10 Temperature limitations
- 11 Maximum speed for carriage and launch
- 12 Altitude limitations