

SECURITY CLASS:

**SECRET**

COR MINUTE SHEET

DATE 28 Jan 58

Ref File S1038CN-180 (DADR)

Vol \_\_\_\_\_ TD \_\_\_\_\_

Minute (2)

COR

Addressee

1 Some doubt exists as to the compatibility of a high speed aircraft (Arrow) and the Genie unguided rocket. The primary problem is that of safe escape from blast and radiation effects with the limitations imposed by the weapon.

2 Further, a comparison of air defence weapons combinations completed in Aug 57 shows that, owing to Genie's complete dependence on continuous AI range data for successful launch, the effectiveness of this weapon in comparison with the planned Sparrow 2 armament is severely reduced in the face of ECM as shown in the following table:

	<u>Sparrow</u>	<u>Arrow</u>	<u>Genie</u>
No ECM	0.50		0.61
ECMv. GE only	0.43		0.53
ECMv. AI only	0.34		0.01
ECMv. GE and AI	0.29		0.00

On this score alone, the value of Genie as armament for the Arrow is questionable.

3 Suggest DSE carry out the study at minute (1) para 3 on a priority basis to preclude further expenditures on the aircraft or Astra system if, in fact, Genie and the Arrow are not compatible.

3 DSE

Des. Squad

20/1/58

30/1

(G.H. Elms) G/C

DADR

2-3783

Note of action

This cleared verbally with  
COL by DSE during

February.

Kheadin  
DSE

14/4