

SECRET



25X1

IDEA-0136-70  
Copy 1 of 8

25 June 1970

Distribution
AMA/OSA
DATE <b>2 JUL 1970</b>
JEE
DF
QTB <i>JWJ</i>
EWC
ESM
File <input type="checkbox"/> Destroy
Tickler <input type="checkbox"/> Other

MEMORANDUM FOR THE RECORD

SUBJECT: Trip Report 17-19 June 1970

1. Location and Purpose of Visit

The undersigned visited Detachment G on 17 and 18 June 1970 to conduct two (2) experimental low-pressure chamber flights using the emergency oxygen supply from one of the two high-pressure bottles as the sole source of oxygen. Additionally, a proposed technical manual change appears necessary in the pilot's Handbook on Liquid Oxygen Management when the two (2) systems feed unevenly in flight. Discussions and a proposal have been prepared for submission to the prime contractor.

2. Results of Visit:

a. The low-pressure chamber flights were completed using one (1) high-pressure bottle as the sole source of oxygen in two (2) separate profiles:

(1) 67,000 - 10,000' in 7 minutes unpressurized amount of oxygen remaining 1180 psi.

(2) 67,000 - sea level 10 minutes pressurized amount of oxygen remaining 1730 psi.



SECRET

GROUP 1  
Excluded from automatic  
downgrading and  
declassification

25X1

SECRET

[Redacted]

25X1

IDEA-0136-70

Page 2

In both cases, using emergency descent rate for the aircraft, there is adequate oxygen in either bottle to return the crewmember to a safe environment.

b. A proposed modification to the RQ-225 parachute lumbar pad has been made by Detachment G Personal Equipment personnel [Redacted]

25X1

[Redacted] This modification includes the attachment of the tree-lowering device to the lower two-thirds of the lumbar pad with hardware storage and attachment of the lanyard to the seat kit with velcro tape. This modification has been test flown at Detachment G for some twenty (20) hours already and subjective impressions of the pilots are all optimistic.

c. Liquid O2 Aircraft Management in flight. Two (2) proposals have been forwarded to Lockheed Aircraft Corporation on changing the technical data on O2 Management in the pilot's handbooks.

(1) Allow pilot privilege of turning one system off and leaving it off until pressure is reduced from active system whereby equal bleed-off will again occur.

(2) Allow pilot privilege of turning active system off once quantity gauge reaches two (2) liters thereby allowing some one to three hours of remaining O2 if second system were for some reason to inadvertently fail when turned on.

At the present time, if it appears that one LOX system is not supplying O2, the dual reliability may be proven by shutting off the active system for a brief period. However, a brief period is not adequate to allow both systems to supply evenly and therefore the pilot ascertains little with such a maneuver.

[Redacted]

25X1

AMS/OSA

[Redacted]

25X1

SECRET

SECRET

[Redacted]

25X1

IDEA-0136-70  
Page 3

CONCURRENCE AND/OR COMMENTS

[Redacted]

*25 June 1970*  
Date

C/AMS/OSA

AMS/OSA [Redacted] (25 Jun 70)

Distribution:

- 1 - AMS/OSA ✓
- 2 - " Chrono
- 3 - DD/SA
- 4 - TB/OSA
- 5 - D/O/OSA
- 6 - D/M/OSA
- 7 - C/Idea/O/OSA
- 8 - RB/OSA

[Redacted]

SECRET

25X1

Approved For Release 2003/11/25 : CIA-RDP75B00285R000300090002-8

25X1

Approved For Release 2003/11/25 : CIA-RDP75B00285R000300090002-8