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4 February 1966

NRO REVIEW COMPLETED

MEMORANDUM FOR : Chairman, U-2R Evaluation Board
SUBJECT : Preliminary Evaluation of Life Support
Area in the U-2R.

Since this report does not deal with all aspects of life support equipments, the evaluation is in two parts. Part I evaluates proposals specifically mentioned and Part II mentions requirements that would necessarily go into new U-2 aircraft.

Part I

Although the cockpit depth and width are going to be increased an average of four inches, there is no mention of increasing its length. An increase in length is mandatory to insure knee clearance of the windshield at the time of ejection.

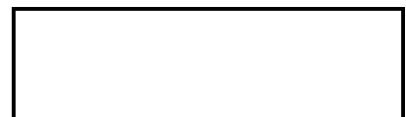
The maximum altitude cruise capability of 13.6 hours and maximum range cruise capability of 17.1 hours, dictates a review of man's ability to function efficiently in a cockpit environment over such a long period of time.

Part II

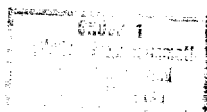
Not mentioned in the report but well within the present state-of-the-art are the following requirements:

- a. A zero-zero escape system.
- b. A stabilizing device for the man during fall after ejection from high altitude.
- c. Thirty-five foot parachute canopy.

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d. Leg retractors and a torso retractor.

e. A full pressure suit.

It is recommended that a study be made of the possibility of incorporating a capsule type escape system.

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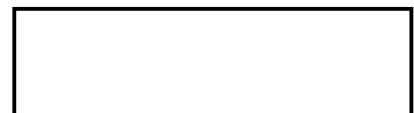
ASD/OSA  (4 Feb 66)

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