## Approved For Release 2000/08/25 : CIA-DDRZ4B00263R000200010019-7

IDEALIST

IDEA 2968 Copy\_\_\_\_\_ 11 April 1966

MEMORANDUM FOR: Chairman, ICEB

SUBJECT:

Sensitive Altimeter

- 1. In connection with the IDEALIST Configuration Evaluation Board held on 14 February 1966, the following data is submitted:
  - a. New Equipment
    - (1) Air Data Computer (ADC)
    - (2) 3 inch Tape Altimeter (IND)
    - (3) Temperature Probe (PROBE)
  - b. Weight
    - (1) ADC Approx 12 lbs.
    - (2) IND Approx 4 lbs.
    - (3) PROBE Approx 0.5 lbs.
  - c. Operating Range
    - (1) Temp: -54 degrees Cent. to +71 degrees Cent.
    - (2) Alt: +80,000 ft.
    - (3) MTBF: ADC 3000 hrs. (From C-141 A/C)

IND - No info as yet.

PROBE - No info as yet

- d. Warranty:
  - (1) ADC and IND 12 mos or 1500 flying hours.

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- e. Accuracies ADC
- (1) Pressure Altitude Plus or minus 20 ft or 0.15%.
- (2) Calibrated Indicated Airspeed Plus or minus 2 kts from 80-250 kts. plus or minus 3 kts over entire range from 50 kts to 400 kts.
- (3) Mach Hold Sensitivity of .0005 Mach (0.1 knot at 70,000 ft.)
- (4) True Airspeed Plus or minus 5 kts to 30,000 ft and 2 kts from 30,000 to 80,000 ft.
  - (5) Free Air Temp Plus or minus 2 degrees Cent.
- (6) Rate of Climb 50 ft/min or 5 percent with 25 ft/min threshold.
- f. Accuracies Indicator (Altitude)
- (1) Sensitivity Plus or minus 5 ft up to 80,000 ft.
- (2) Altitude Accuracy Plus or minus 10 ft up to 80,000 ft.
- g. Budgetary Prices
  - (1) ADC '

Qty	<u>Unit Price</u>	Total Price
25 40 60		25X1A1a

(2) Tape Altimeter

Qty	Unit Price	Total Price
25 40 60		25X1A1a

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(3) Temp. Probe

Qty	Unit Price	Total Price
25 40 60		25X1A1a

2. Use of the above system would allow the removal of the existing Mach Computer with a 10 fold increase in Delta Mach sensitivity. With minor modification the existing "Cabin-Q-Bay" altimeter could be utilized as a pressure back-up system

25X1A9a

Chica OSA-DD/S&T

25X1A9a

MD/OSA/ let (23Feb66)

Distribution:

#1 - C/ID/OSA

#2 - MD/OSA #3 - MD/OSA

#4 - RB/OSA

#5 - Chrono