SECRET Approved For Release 2004/06/31 : CIA-RDP688B00724R000200190079-4

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12 June 1967

MEMORANDUM FOR THE RECORD

SUBJECT : U-2R Gross Weight Status

25X1A -

1. On 23 May 1967 the undersigned met with LAC, to review all of the U-2R gross weight changes which have taken place since the original U-2R proposal of 27 December 1965. Attachment I is a summary of the overall weight status. Attachment II is a detailed breakdown of the evolution of the empty weight from the proposal to the present and Attachment III is a similar presentation of the useful load weight.

2. In summary, the original model specification empty weight represented an increase of 50 pounds over the proposal empty weight resulting totally from LAC configuration changes and design engineering refinements. The current empty weight reflected in the 5 May 1967 preliminary revision to the model spec shows an increase of 909 pounds over the original spec. Of this 909 pound increase, a total of 265 pounds has resulted from configuration changes or additions by the customer with the remainder being LAC responsibility. The fluctuation in the useful load weight from the proposal to the model spec to the preliminary revision to the model spec results both from differences in the systems included in the payload and from refinements in the various system weight estimates.

USAF review(s) completed.

SIGNED



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U-2R GROSS WEIGHT

STATUS REPORT

	SP-937 PROPOSAL 27 DEC 1965	SP-1125 MODEL SPEC 28 NOV 1966	SP-1125 PRELIMINARY MODEL SPEC REVISION 5 MAY 1967
EMPTY WEIGHT	15950	16000	16909
USEFUL LOAD	1450	1800	1525
ZERO FUEL WEIGHT	17400	17800	18434
FUEL WEIGHT	12730	12900	12900
NORMAL T.O. WEIGHT	30130	30700	31334

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ATT. I TO IDEA-0412-67

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U-2R EMPTY WEIGHT

STATUS REPORT

Empty Weight As		15950		-
Configuration C	nanges by LAC:			
Cockpit Width Increase Dive Tail Fairing F Fin Area Incre	Edge Stall String		+115 35 50 20 35 30 - 30	
· · · · ·	TOTAL		+255	
Design Engineeri	ng Refinements By LAC:			
	Wing Tail Fuselage Landing Gear Surface Controls		$ \begin{array}{rrrr} - & 21 \\ - & 30 \\ + & 8 \\ + & 6 \\ - & 62 \end{array} $	
	Hydraulics Electronics Air Conditioning Paint		-62 -105 + 15 -107 + 91	
•	TOTAL		-205	
Empty Weight As (Df 28 Nov 1966		16,000	Page

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	Configuration Changes or Additions By	y LAC:		• • • • • • • • • • • • • • • • • • •	· · ·
	Nose Latches In Lieu of Bolts Air Data Computer Requirement Plastic Leading Edge On Fin For H.F Radio In Lieu of Wire Antenna Fuel System Cross Transfer Lines Thru Lower Longeron	F		5 22 16 2	
	Cockpit Side Console External Access Flight Test Revisions Contingency	S		13 _100	(
	TOTAL			158	
25X1	Configuration Changes Or Additions By	Customer:		198	C
SECRET 25X1A	Added ILS Requirement Added UHF Provisions For Fog Aircraf Added Tacan Requirement Moved System 9 to Aft Fuselage ARC 51 In Lieu of ARC 34 Emergency Extension of Lift Spoiler DOPPLER/NAV System Requirement Dual 50 A/H Battery In Lieu of Single To Permit During Dead Max Range Descent Wing Pylon Structural Provisions TOTAL Design Engineering Refinements By LAC:	ft le 25 A/H d Engine		35 5 47 20 -15 6 123 39 5 265	25X1
	Wing Tail Fuselage Landing Gear Surface Controls Propulsion Hydraulics Electronics Furnishings			55 N 11 -25 30	ATT. II TO IDEA-0412-67 Page 2
L	Empty Weight As Of 5 Approved For Release 20	J04/08/31 : CIA-RDP68B007	24R000200190079-4	486 5909	7
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U-2R USEFUL LOAD

STATUS REPORT



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ATT. III TO IDEA-0412-67

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