



Virginia State Police Aviation Unit
Weight and Balance Worksheet

B407

Rev: 11/14/2014

N31VA

Empty Weight(Computed 05/25/17)

3554 459466 -2103

8/26/17

	Wt Lbs	Long Arm	Lat Arm	Long Mom	Lat Mom
Calculated Empty Wt	3300.7	132.08	-0.24	435954.2	-804.58
Fuel US G (127.8)	125	850	127.9	108715	0
Pilot	210	65	14	13650	2940
Front Pax	240	65	-11.1	15600	-2664
Litter	0	95	-11	0	0
L Aft Pax	0	95	-11	0	0
R Aft Pax	0	91	15.5	0	0
L Fwd Pax	0	129	-16.8	0	0
C Fwd Pax	0	129	0	0	0
R Fwd Pax	0	129	16.8	0	0
Cargo (210# Max w/ Ox tank)	30	174	0	5220	0
Hoist Pax (Max load 300 lbs)	0	113.81	-24.5	0	0
EMS Gear 1	0	91	15.5	0	0
EMS Gear 2	0	130	0	0	0
TSOP R Pax FWD	0	73	42	0	0
TSOP R Pax AFT	0	155.2	42	0	0
TSOP L Pax FWD	0	73	-42	0	0
TSOP L Pax AFT	0	155.2	-42	0	0

Show Installed/Removed for all equipment as needed

Med Litter/Mount	Removed	0	95	-11	0	0
EMS Headrest	Installed	6.6	79	-14	521.4	-92.4
PAX Headrest	Removed	0	79	-14	0	0
Hoist	Installed	31.5	114.7	-23.8	3613.05	-749.7
Night Sun	Installed	36.5	49	-6.5	1788.5	-237.25
Night sun control	Installed	2.5	18	-17	45	-42.5
FLIR Hand Control	Installed	2.2	38	-23	83.6	-50.6
FLIR Gimbal	Installed	29	106	-7.5	3074	-217.5
Snow Deflectors	Removed	0	130	0	0	0
Dual Controls	Removed	0	48	-13.2	0	0
Left Aft Seat	Removed	0	95	-11	0	0
Litter Floor Mount	Installed	9	95	-11	855	-99
PAX Armrest	Installed	2.5	95	0	237.5	0
EMS Windowpouch	Removed	0	95	28.3	0	0
Right Aft Seat	Installed	9	91	14	819	126
Medical Box	Removed	0	91	14	0	0
PAX carpet	Removed	0	109	0	0	0
High Skids/Steps	Installed	115.6	115.5	0	13351.8	0
Low Skids	Removed	0	115.5	0	0	0
Wirestrike	Installed	12.9	39.2	0	505.68	0
Microwave Antenna	Installed	0.6	146	0	87.6	0
TSOP Right	Removed	0	110	42	0	0
TSOP Left	Removed	0	110	-42	0	0

RAMP WEIGHT	4888.6	123.58	-0.39	604121.4	-1891.53
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Minutes to Scene	50	255	127.9	32614.5	0
MAX Litter PAX		616.4	108	66571.2	-8013.2
Litter PAX		0	108	0	0

SCENE WEIGHT	4633.6	123.34	-0.41	571506.9	-1891.53
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Calculated Empty Weight- Empty weight with removable equipment subtracted- Removable equipment must show "installed" on this form if actually installed on aircraft. Ref Sheet 3

BHT-407-FMS-28

TC APPROVED

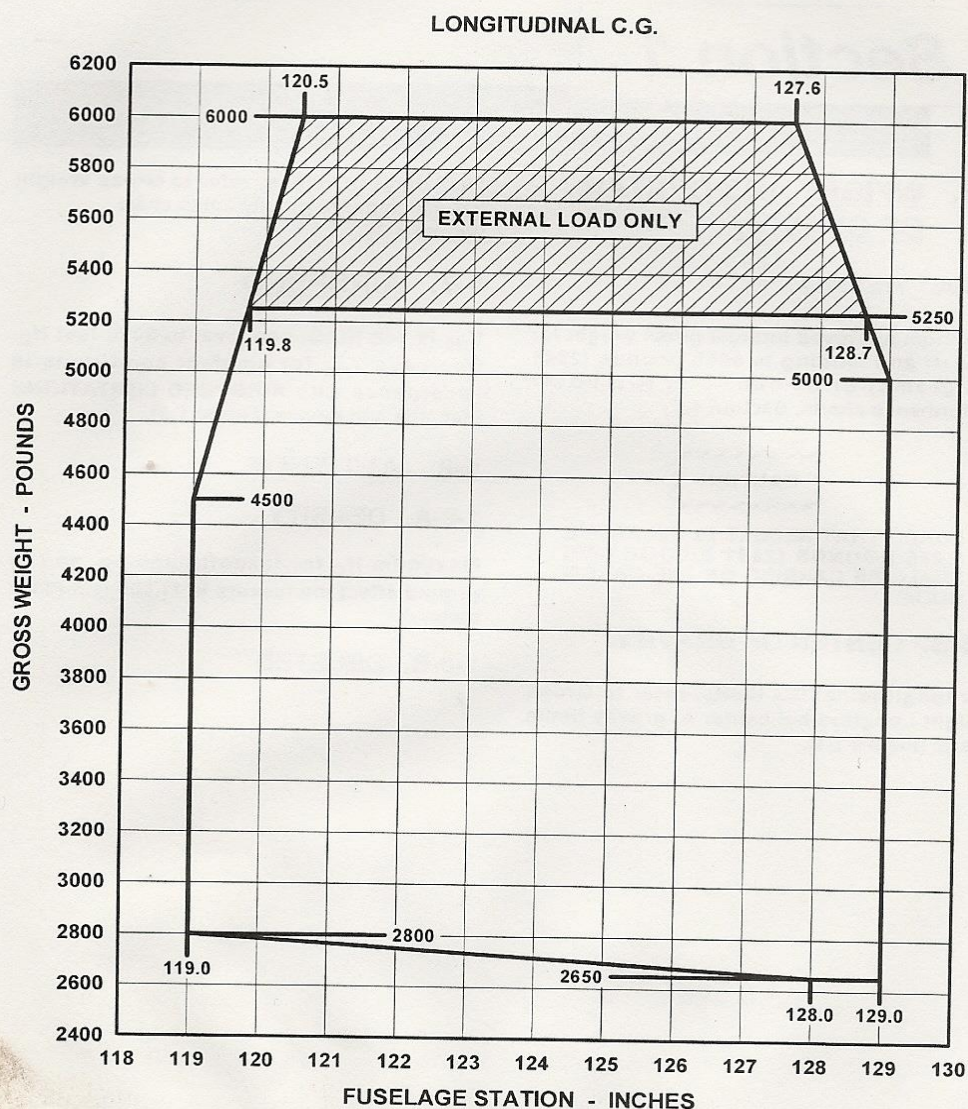
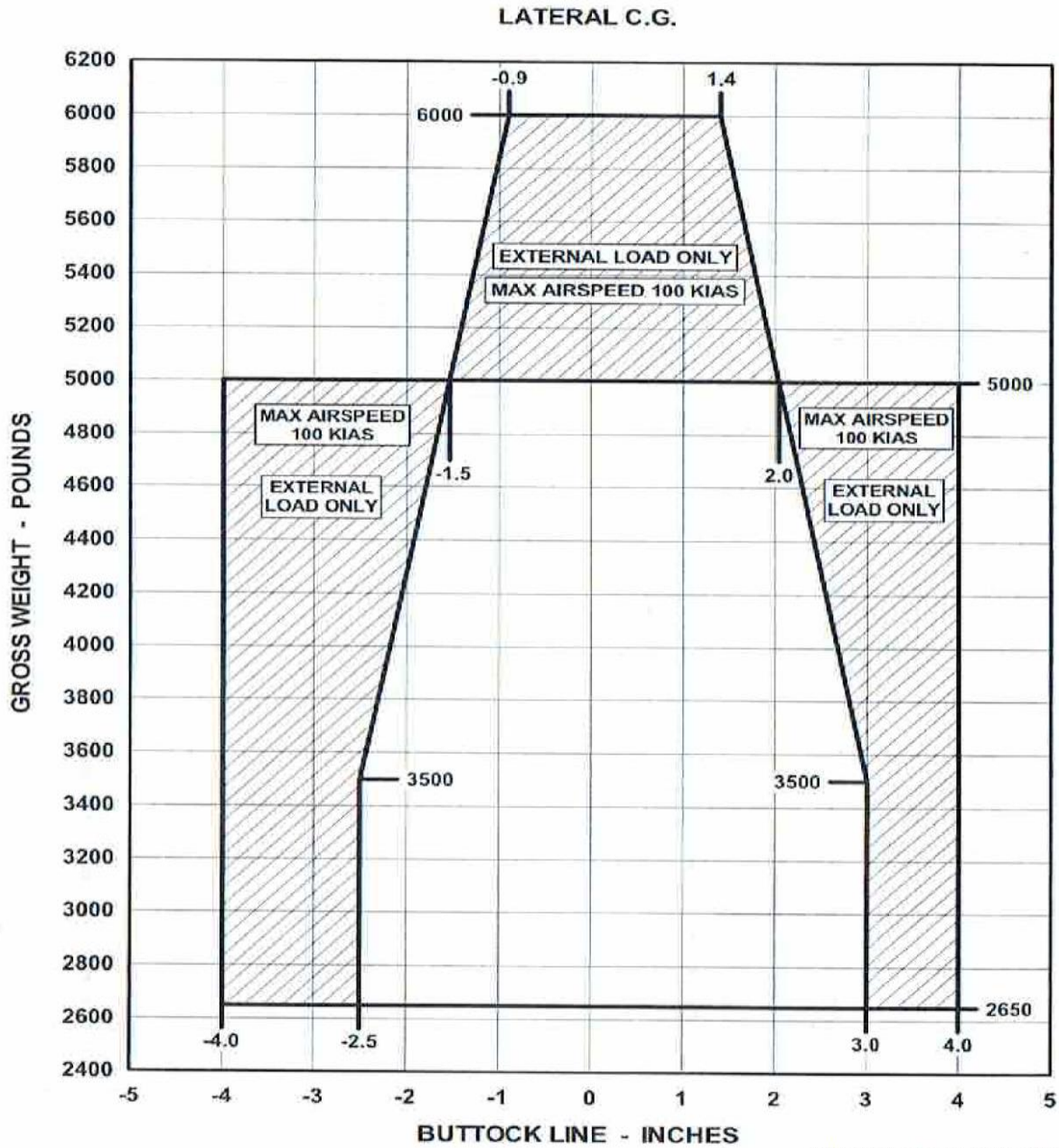


Figure 1-1. Gross Weight Longitudinal center of gravity limits (sheet 1 of 2)



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Figure 1-2. Gross weight lateral center of gravity limits (Sheet 1 of 2)