

To FAA

Regarding to an accident occurs on January 4th 2017 in R22 N702JJ, weight and balance calculation was performed as below.

Pilot [REDACTED] stated his weight is 175 pounds. His FAA medical certificate indicates 180 pounds. Visually he is looks like 173 pounds for me.

We asked Photographer MR. [REDACTED] to scale his weight just before the flight, which indicated approximately 195 pounds.

R22 has 2 gas tanks. Before the flight, N702JJ had approximately 15 gallons total. Weight limitations were within the limits. Weight balances were within the limits in the flight.

February 7th 2017

[REDACTED]

[REDACTED]

WEIGHT & BALANCE

N 702JJ

ITEM	LIMIT	WEIGHT	LONG.ARM	LONG.MOM	LAT.ARM	LAT.MOM
Empty Weight		877.51		91194.76		277
Pilot (Right)	SOLOMIN 135 lb MAX 240 lb	180.00	78.0	14040	+10.7	1926
Baggage (Right)	MAX 50 lb	3.00	78.0	234	+10.7	32.1
Passenger (Left)	MAX 240 lb	195.00	78.0	15990	-9.3	-1906.5
Baggage (Left)	MAX 50 lb	3.00	78.0	234	-9.3	-27.9
Right door off	- 5.2 lb	0.00	77.5	0	21	0
Left door off	- 5.2 lb	- 5.20	77.5	-403	-21	109.2
Total W&B W/zero fuel	MIN 920 lb MAX 1370 lb	No Fuel Weight 1263.31	No Fuel Lon. C.G. 96.00	Long.Empty Moment 121289.76	No Fuel Lat. C.G. 0.32	Lat. Empty Moment 409.9
Main Tank 16.9 gal	MAX 101.4 lb	60.00	108.6	6516	-11.0	-660
Aux. Tank 9.4 gal	MAX 56.4 lb	30.00	103.8	3114	+11.2	336
Total W&B W/take off fuel	MIN 920 lb MAX 1370 lb	Take Off Weight 1353.31	Lon. Full C.G. 96.74	Long. Full Moment 130919.76	Lat. Full C.G. 0.06	Lat. Full Moment 85.9

■ 1 GALLON = 6 LB ■ MOMENT = WEIGHT × ARM ■ CENTER OF GRAVITY = TOTAL MOMEN ÷ TOTAL WEIGHT

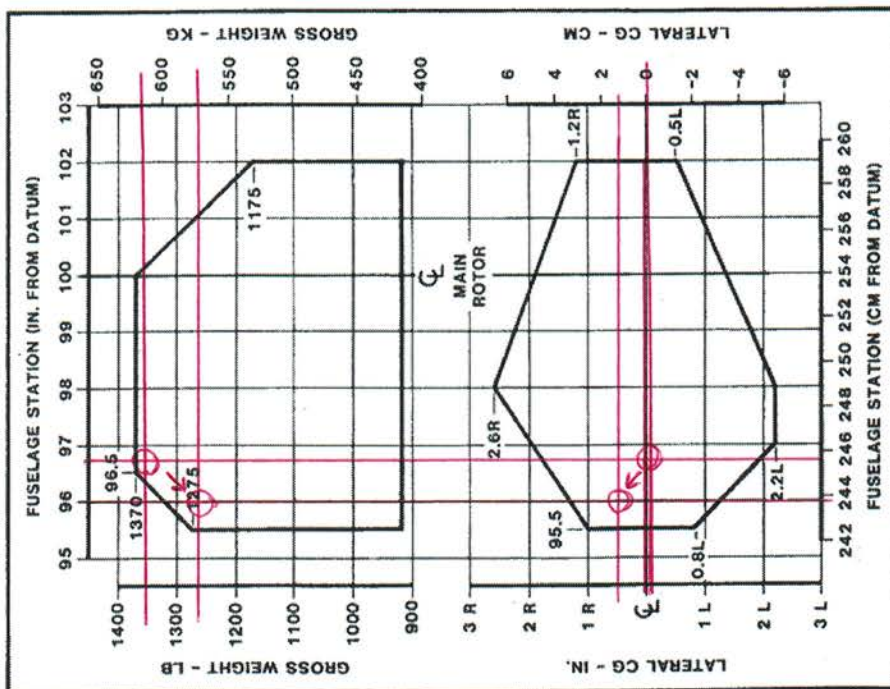
■ VFR required fuel =ETE _____ min + Starting & Shut down _____ min + Reserve 20 min = _____ min
Gal gal 3.3 gal gal

■ Over weight: _____ lb (_____ gal) ■ Max available gal = _____ gal = _____ min

■ Max OGE: _____ feet ■ Max IGE: _____ feet ■ Are you going to refuel? Yes or No at least _____ gal

SECTION 2
LIMITATIONS

ROBINSON
MODEL R22



R22 ALPHA, BETA, AND BETA II
CENTER OF GRAVITY LIMITS

2-7

FAA APPROVED: 13 OCT 2000