

WEIGHT AND BALANCE MODIFICATION FORM

Aircraft Make: **BERECRAFT** Model: **F33A** Registration: **N3108N**

All readings Weight in: kilo / pound (*) Arm in: mm / m / inch (*)

| REMOVED ITEMS | WT | ARM | MT | INSTALLED ITEMS | WT | ARM | MT |
|-------------------------|-------------|-----------|-------------|----------------------|-------------|-----------|-------------|
| <i>Gill G-242 Batt.</i> | <i>27.0</i> | <i>45</i> | <i>1215</i> | <i>CONCORD RG-24</i> | <i>29.5</i> | <i>45</i> | <i>1328</i> |
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| Total | <i>27.0</i> | <i>45</i> | <i>1215</i> | Total | <i>29.5</i> | <i>45</i> | <i>1328</i> |

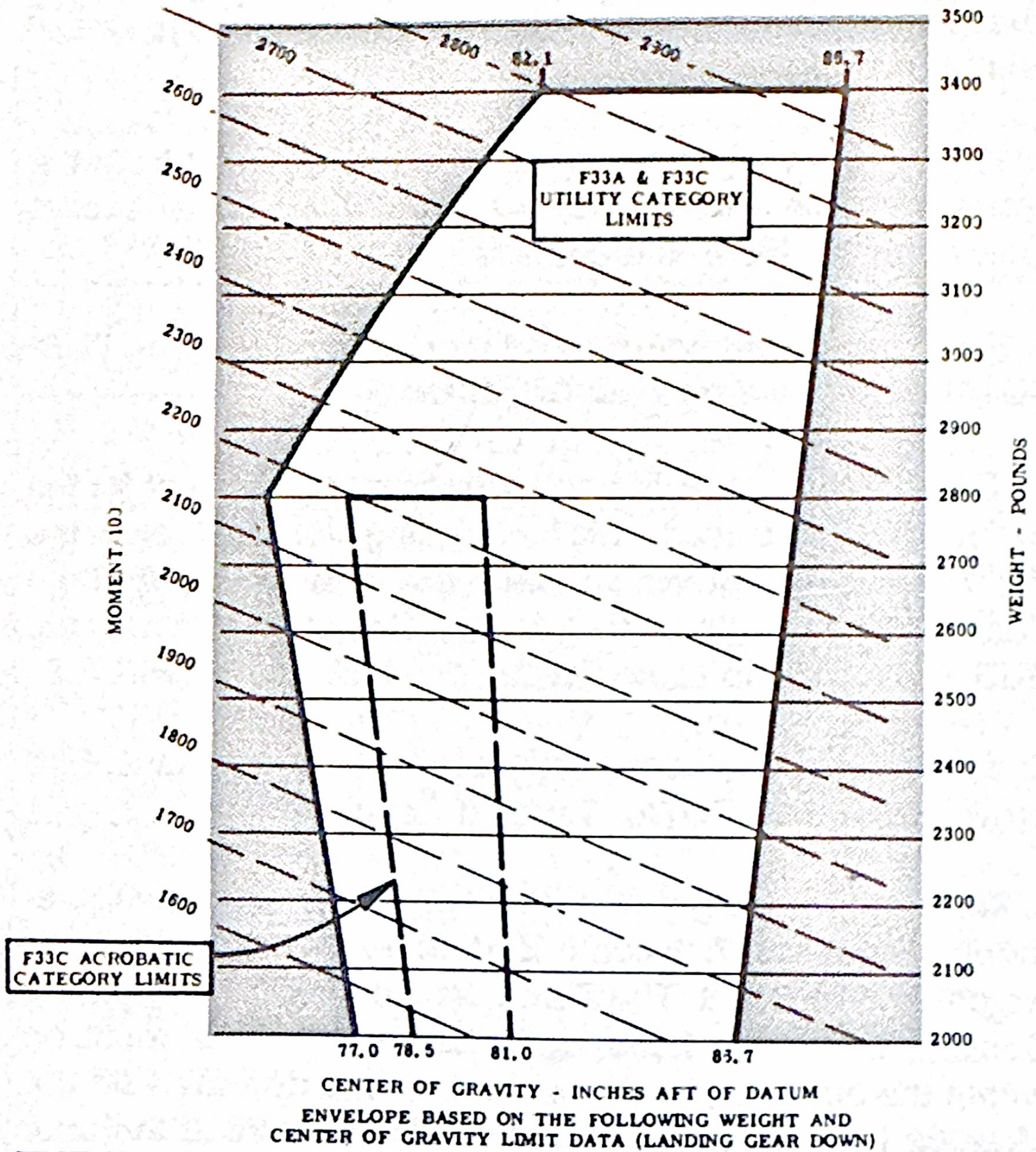
| | Weight | Arm | Moment |
|-------------------------|---------------|--------------|------------------|
| Previous empty weight | <i>2257.0</i> | <i>82.35</i> | <i>185864.00</i> |
| Total removed | <i>-27.0</i> | <i>45</i> | <i>-1215</i> |
| Total installed | <i>+ 29.5</i> | <i>45</i> | <i>+ 1328</i> |
| New empty weight | <i>2259.5</i> | <i>82.31</i> | <i>185977</i> |

| | | | |
|------------------------|--|--------------------------|----------------------------|
| New useful load | <i>1140.5</i> <small>NORMAL *</small> | <small>UTILITY *</small> | <small>AEROBATIC *</small> |
|------------------------|--|--------------------------|----------------------------|

This weight and balance modification supersedes (the weight and balance report (*) the previous weight and balance modification form (*)) A dated :

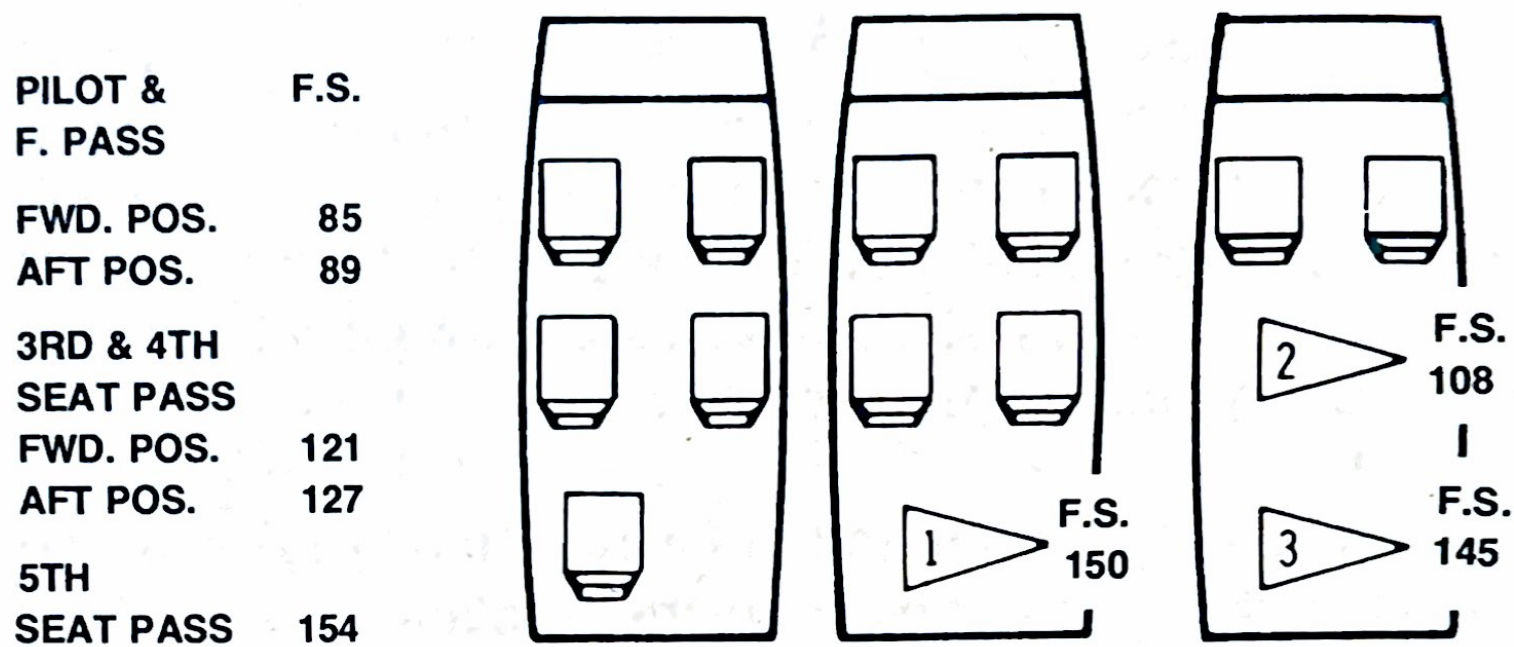
Calculation completed by *Stanley A. Edwards* Date *Aug 14 2018* Signature *Stanley A. Edwards*
AP 1887968

MOMENT LIMITS VS WEIGHT



| | <u>WEIGHT CONDITION</u> | <u>FORWARD C.G. LIMIT</u> | <u>AFT C.G. LIMIT</u> |
|---|--|---------------------------|-----------------------|
| F33A & F33C UTILITY CATEGORY | 3400 LB. (MAXIMUM TAKE-OFF OR LANDING) | 82.1 | 86.7 |
| | 2800 LB. OR LESS | 77.0 | 86.7 |
| F33C ACROBATIC CATEGORY | 2800 LB. OR LESS | 78.5 | 81.0 |

SEATING, BAGGAGE AND EQUIPMENT ARRANGEMENTS



NOTE

The floor structure load limit is 100 pounds per square foot, except for the area between the front and rear spars, where the floor structure load limit is 50 pounds per square foot.

NOTE

All baggage/cargo must be secured with an approved cargo net.

- 1 MAXIMUM WEIGHT 270 POUNDS INCLUDING EQUIPMENT AND BAGGAGE WITH 5th SEAT REMOVED OR STOWED.
- 2 MAXIMUM WEIGHT 200 POUNDS FORWARD OF REAR SPAR INCLUDING EQUIPMENT AND CARGO WITH 3rd and 4th SEATS REMOVED.
- 3 MAXIMUM WEIGHT 270 POUNDS AFT OF REAR SPAR INCLUDING EQUIPMENT AND CARGO WITH 3rd, 4th and 5th SEATS REMOVED.

WEIGHT AND BALANCE LOADING FORM

BONANZA F33A DATE 00/00/00
SERIAL NO. CE-XXX REG NO. NXXXX

| ITEM | WEIGHT | MOM/100 |
|--|--------|---------|
| 1. BASIC EMPTY CONDITION | 2181 | 1751 |
| 2. FRONT SEAT OCCUPANTS | 340 | 288 |
| 3. 3rd and 4th SEAT OCCUPANTS | 340 | 412 |
| 4. 5th SEAT OCCUPANT | — | — |
| 5. BAGGAGE | 43 | 65 |
| 6. CARGO | — | — |
| 7. SUB TOTAL ZERO FUEL CONDITION | 2904 | 2516 |
| 8. FUEL LOADING (74 Gal) | 444 | 333 |
| 9. SUB TOTAL RAMP CONDITION | 3348 | 2849 |
| 10. *LESS FUEL FOR START, TAXI, AND TAKE-OFF | -12 | -9 |
| 11. SUB TOTAL TAKE-OFF CONDITION | 3336 | 2840 |
| 12. LESS FUEL TO DESTINATION (58 Gal) | -348 | -261 |
| 13. LANDING CONDITION | 2988 | 2579 |

SAMPLE

*Fuel for start, taxi and takeoff is normally 12 lbs at an average mom/100 of 9.