

SECTION VIII ADDITIONAL OPERATIONS AND PERFORMANCE DATA

8-1. HOVER CEILING – OUT OF GROUND EFFECT (OGE)

CAUTION

Select the appropriate hover performance chart for the engine (Rolls Royce 250-C20B or 250-C20R/2) and/or optional equipment installed.

Description:

The hover ceiling chart shows the maximum hover weight capability, out of ground effect (OGE), at take off power for known conditions of pressure altitude and outside air temperature, or alternately, the maximum hover ceiling for a known gross weight and outside air temperature.

The hover ceiling vs gross weight charts are based on:

1. Takeoff power at 103% N₂
2. **CABIN HEAT** and engine **ANTI-ICE OFF**
3. Electrical load of 10 AMPS
4. Wind less than 3 knots

Use of chart:

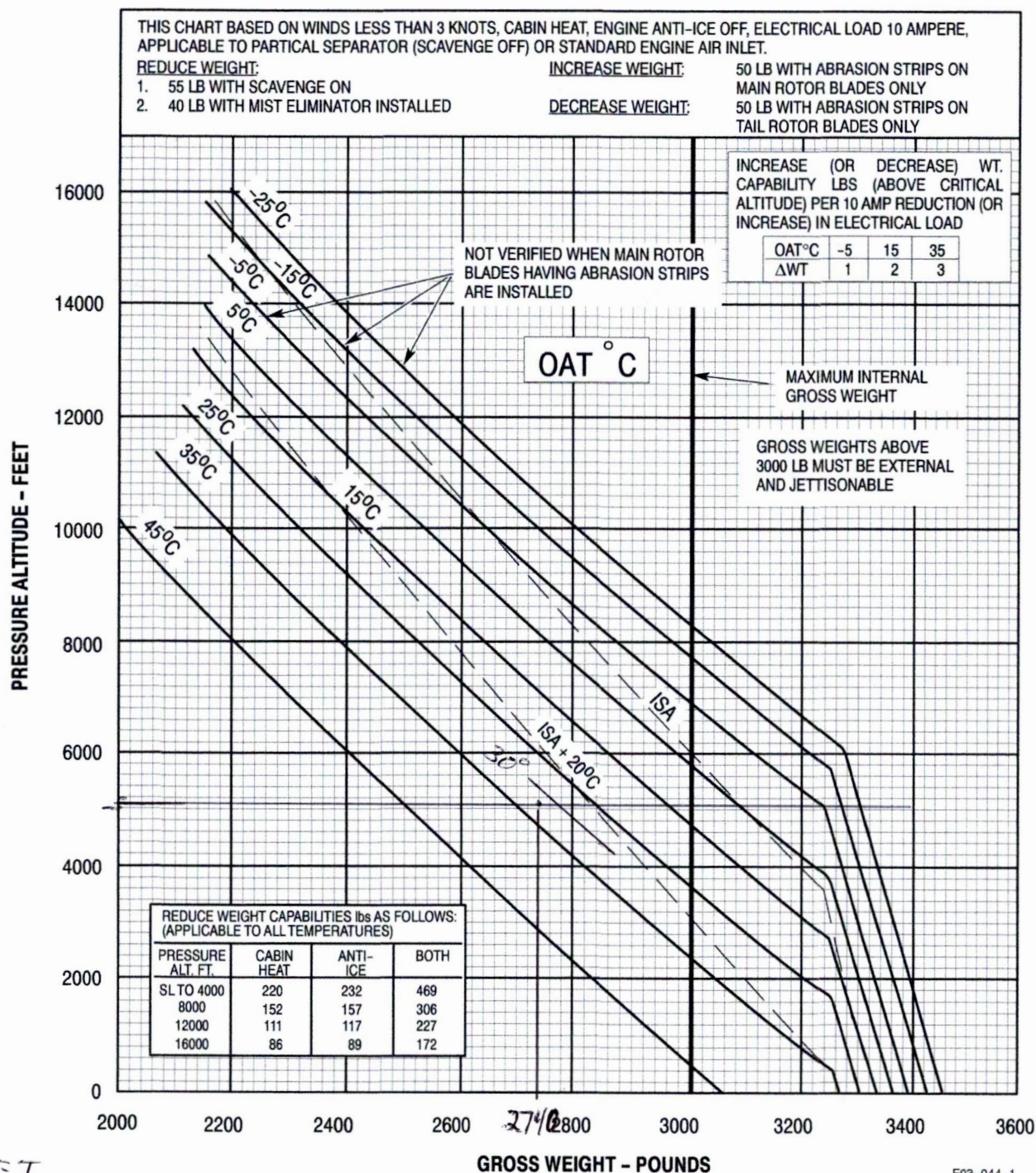
To determine OGE hover performance, refer to Section V, Hover Ceiling (IGE), "Use of chart".

NOTE: Aircraft with 4-bladed tail rotors:

Pilots should be aware that the IGE directional controllability tests have demonstrated that the two-bladed tail rotor has more margin than the four-bladed tail rotor. OGE directional controllability in winds greater than 3 knots has not been determined for either tail rotor configuration.

Both Pilots were ADVISED TO REDUCE PAX
LOAD IF NECESSARY SEVERAL TIMES - EXTENSIVE
TRAINING/DISCUSSIONS WERE GIVEN WITH ACTUAL
SIMULATED T/R FAILURES DURING TRAINING

Additional Operations and Performance Data



5100 FT
32"

With AC ON DEDUCT 100lbs? WAS IT ON

Figure 8-1. Hover Ceiling Versus Gross Weight, Out of Ground Effect, Takeoff Power, Two or Four Bladed Tail Rotor, Rolls-Royce 250-C20B *OGE MA*

OGE MAX 2740

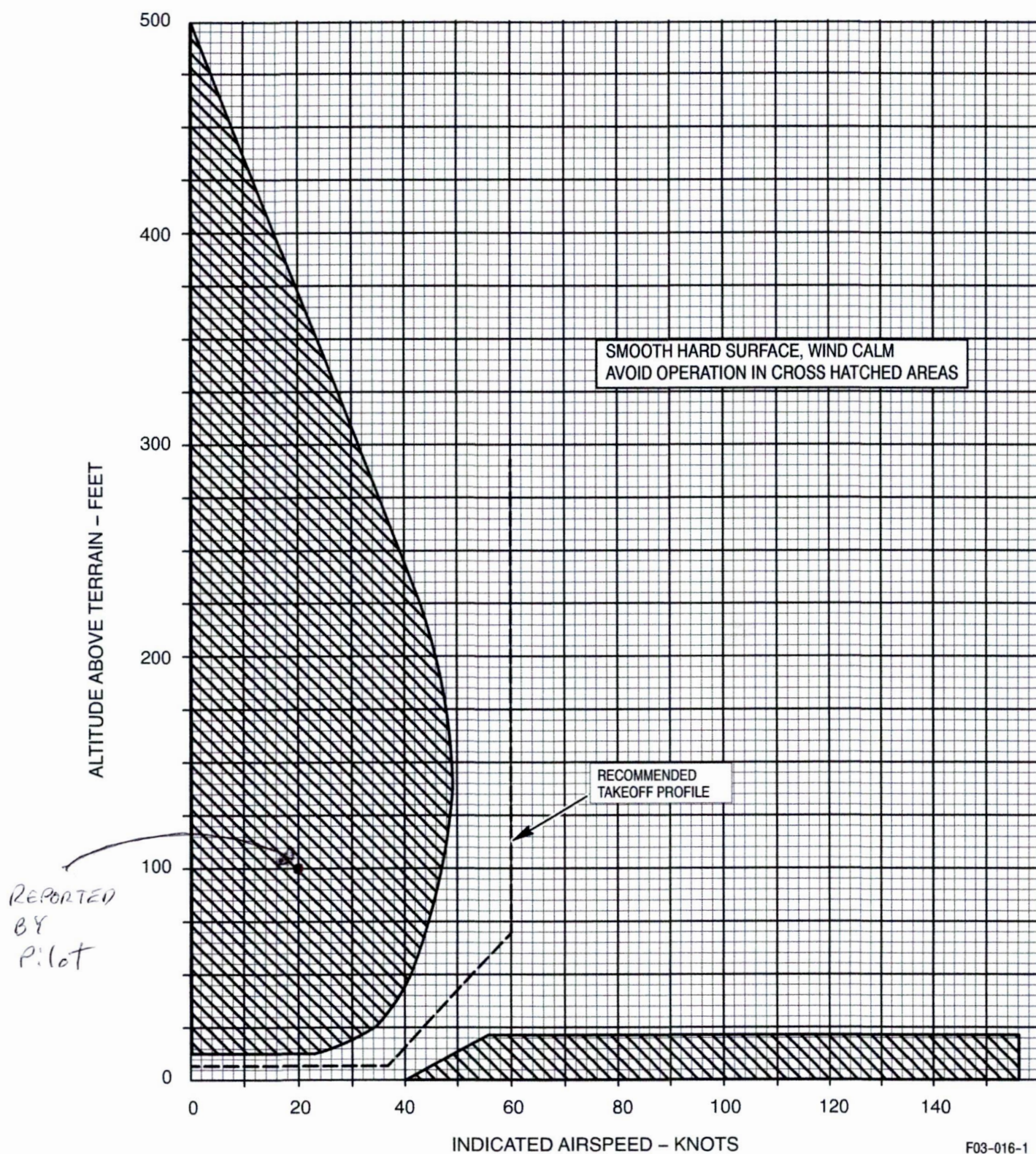


Figure 5-15. Height Velocity Diagram