From: Keith Mackey [mailto:mackeyintl@gmail.com]
Sent: Friday, October 24, 2014 10:28 AM
To: Ronald J. Snow
Subject: Re: HOGE

See below:

Keith Mackey
Mackey International
http://www.keithmackey.com

352-347-0770

Cell 352-502-5021
mackeyintl@gmail.com

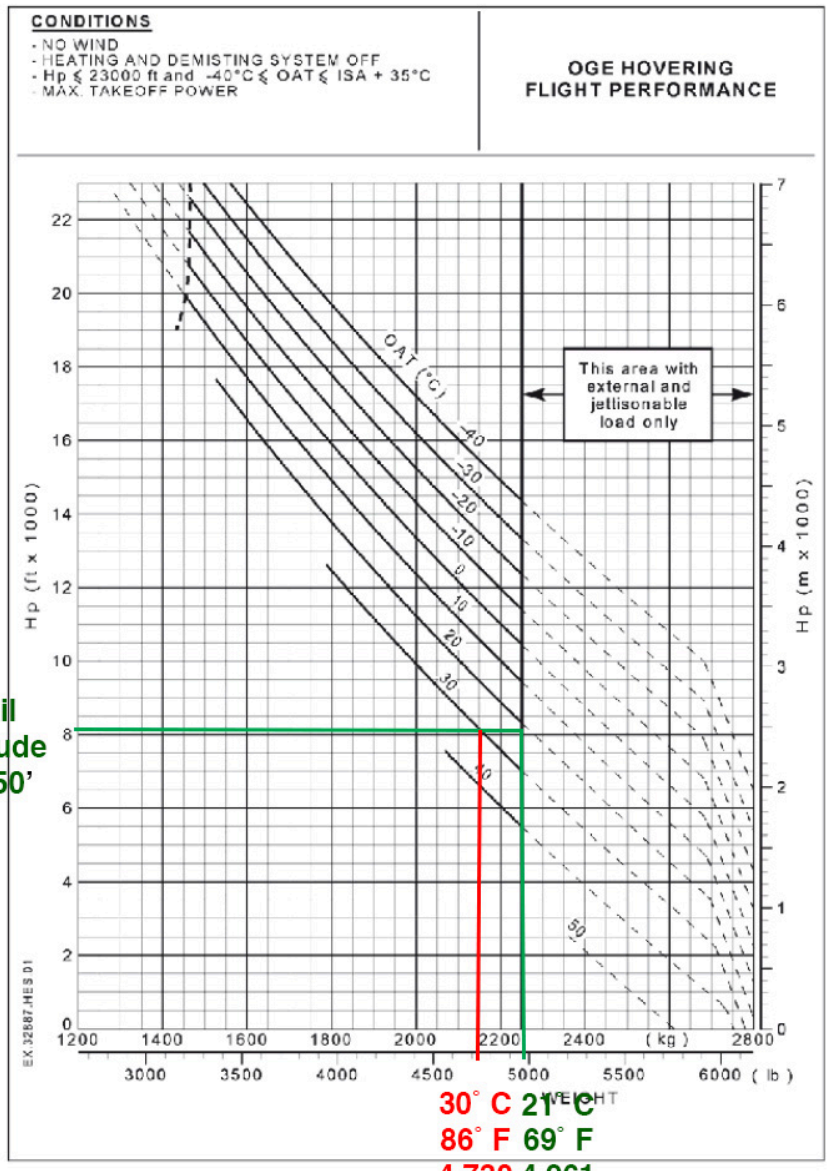
On Oct 24, 2014, at 12:06 PM, Ronald J. Snow <rsnow@burlesonllp.com> wrote:

Is helicopter safe to depart from elevated helipad with no loss of altitude without heliport surface being immediately below it?

It depends on the weight of the helicopter and the temperature. In the chart below, as you can see, If the temperature were higher than 69 F, weight must be removed to have HOGE capability. This chart was created under ideal conditions by a factory test pilot operating a new machine. Your results may vary;-) It is very difficult for the pilot to know the true weight of the helicopter as there is no way to measure it with a scale. It is a calculated weight determined by adding the basic helicopter weight to the payload and fuel.

If an error is made and the machine lifts off the pad and flies over the street, it is instantly OGE and the machine will run out of power. Until about 25 mph forward speed is reached, the pilot must trade his 75' of altitude for speed to continue flying, as he can't stop OGE. Hopefully, no wires or trees will be in the way.

5.7 HOVER OUT OF GROUND EFFECT



Vail Altitude 8,150’

30˚ C 21˚C
86˚ F 69˚ F
4,730 4,961

Figure 5 - 6

Maximum Gross Weight 4,961

Or is it only a danger if other factor or enters?

As described above

At one point, you were concerned that departure would be impossible without being at ground level for helipad.

At the present ground level heliport, hovering IGE is possible up to 97F and the problem goes away. See the HIGE chart below. This is one of the reasons why the reliability of using the proposed pad will really take a hit vs. the present pad.

5.6 HOVER IN GROUND EFFECT

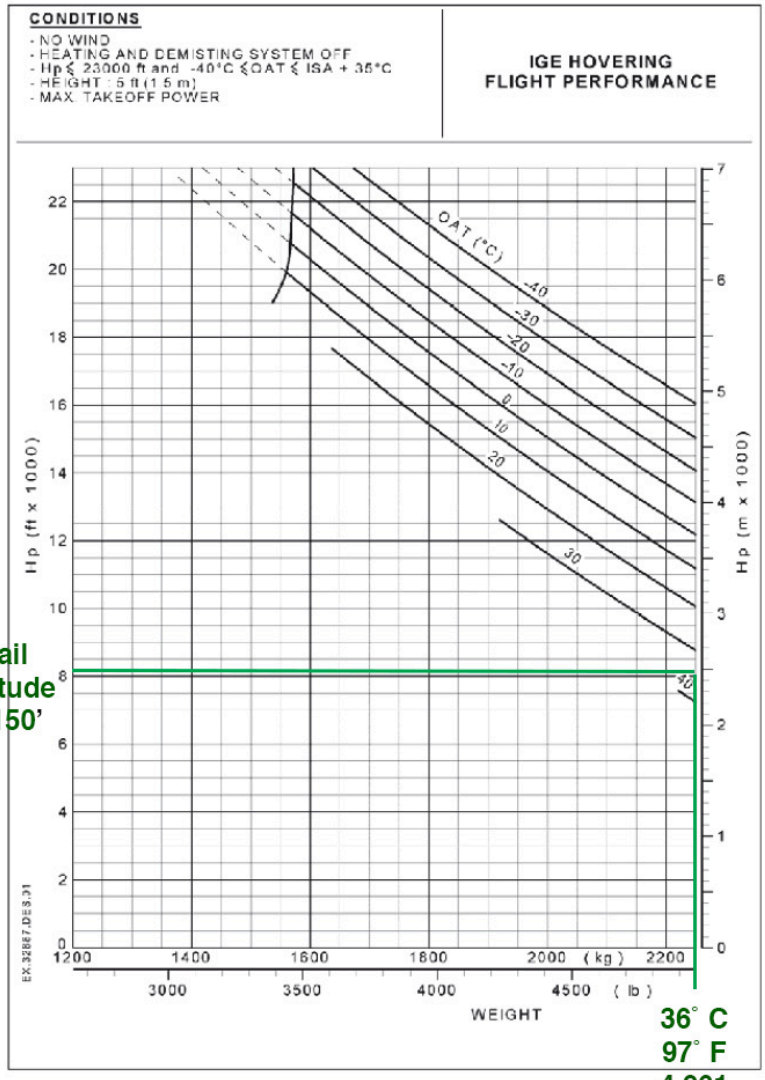


Figure 5 - 5

Maximum Gross Weight 4,961 lbs