SECTION 5

PERFORMANCE

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ROBINSON
MODEL R66

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GENERAL

Hover controllability has been substantiated in 17 knot wind from any direction up to 11,000 feet density altitude. Refer to hover performance charts for allowable gross weight.

Indicated airspeed (KIAS) shown on charts assumes zero instrument error.

CAUTION

Performance data presented in this section was obtained under ideal conditions. Performance under other conditions may be substantially less.

USE OF CHARTS

POWER ASSURANCE CHART

The power assurance chart shows maximum allowable MGT at a specified torque. If the observed MGT is greater than indicated by the chart, the engine may not produce the power necessary to achieve the performance data given in this section without exceeding MGT limits.

A power assurance check may be done in a hover or in forward flight and should be performed at the maximum practical power for best accuracy. The chart assumes no generator load and stabilized conditions. Temperature stabilization may take up to two minutes. Generator load should be minimal or the generator may be switched OFF during the check. An example on the chart shows correct use.

The chart may also be read in reverse, giving the minimum allowable torque at a specified MGT. It may be useful to use the chart to predict the torque available at MGT limits for a given pressure altitude and OAT.