



MEMORANDUM FOR RECORD

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December 8, 2020

Subject: Accident helicopter performance ratings; sent by Jack Johnson of Rolls Royce in response to our conversation about fuel burn.

TABLE 1. PERFORMANCE RATINGS (STANDARD SEA LEVEL STATIC CONDITIONS)

Rating	Shaft HP (min)	Net jet thrust lb (min)	Gas producer speed rpm (%) (est)	Output shaft rpm	Specific fuel consumption lb/SHP-hr (max)	Ram power rating torque at output shaft ft-lb (max)	Measured rated gas temp °F (°C) (max)
Takeoff	317	33	51600 (100.9)	6000	0.697	293	1380 (749)
Normal	270	28	49760 (97.3)	6000	0.706	249	1280 (693)
90% normal	243	26	48650 (95.2)	6000	0.725	249	1226 (663)
75% normal	203	21	46950 (91.8)	6000	0.762	249	1148 (620)
Start and idle	35 max	10 max	32000 (62.6)	4500-6300	61 lb/hr	—	750 ± 100 (399 ± 56)
Flight auto- ration	0 max	10 max	32000 (62.6)	5900-6480	61 lb/hr	—	725 ± 100 (385 ± 56)

NOTE: Specific fuel consumption = fuel flow/SHP.

[END]