

FLIGHT PERFORMANCE RECORD FOR ROTORCRAFT

NOTES:

1. An application for the issuing of a Certificate of Airworthiness **OR** Approval of a Modification, must comply with the provisions of CAR 21.08.2 or CAR 43.02.14.
2. The original application must be submitted to the Director of Civil Aviation.
3. Where the required information cannot be furnished in the space provided, the information must be submitted as a separate memorandum and attached hereto.

PARTICULARS REGARDING THE PURPOSE OF THE FLIGHT (Please mark the appropriate block)

	For Certificate of Airworthiness (C of A)
	For modification approval
	Other - specify

FOR ATTENTION OF SACAA INSPECTOR OR CERTIFICATION ENGINEER:

1	GENERAL				
1.1	Aircraft Registration	Z		-	
1.2	Aircraft Designation				
1.3	Date of test				
1.4	Time at start of the tests				
1.5	Aerodrome				
1.6	Aerodrome's Pressure Altitude				
1.7	Engine Designation				
1.8	Rotor Designation (if available)				
1.9	Altimeter set to 1013.20 MBS during the tests?	YES		NO	
1.10	Engine hours since new or last complete overhaul				
	i	Engine Number I			
	ii	Engine Number II			
2.	PRE-FLIGHT INSPECTION				
2.1	Doors and Transparencies: Condition & Operation:	Sat.:		Un-Sat.:	
2.2	Seats & Harnesses: Condition & Operation:	Sat.:		Un-Sat.:	
2.3	Cyclic Control: Freedom, Range of travel, Friction:	Sat.:		Un-Sat.:	
2.4	Collective Control: Freedom, Range of travel, Friction:	Sat.:		Un-Sat.:	
2.5	Throttle Control: Freedom, Range of travel, Friction:	Sat.:		Un-Sat.:	
2.6	Yaw Control: Freedom, Range of travel, Friction:	Sat.:		Un-Sat.:	
2.7	Instrument Markings: Legibility and Accuracy:	Sat.:		Un-Sat.:	
2.8	Placarding: Legibility and Accuracy:	Sat.:		Un-Sat.:	
2.9	Communication and Navigation check:	Sat.:		Un-Sat.:	

NOTES

3. START-UP AND TRANSITION FLIGHT INSPECTION

3.1	Start-up procedure including clutch operation	Sat.:		Un-Sat.:	
3.2	Clutch engagement completed at what RPM	Sat.:		Un-Sat.:	
3.3	Cyclic Control / Rotor response at 100% rotor speed:	Sat.:		Un-Sat.:	
3.4	Pedal / Yaw response - for Left Turn + Right Turn	Sat.:		Un-Sat.:	
3.5	Gyro Instruments Functioning:	Sat.:		Un-Sat.:	
3.6	Mixture Control Functioning:	Sat.:		Un-Sat.:	
3.7	Warning System Functioning:	Sat.:		Un-Sat.:	
3.8	Vibration levels during transition flight	Sat.:		Un-Sat.:	
NOTES					
4.	HOVER MANOEUVRES TESTS				
4.1	Stationary hover turns, 360 degrees left and right (spot turns)	Sat.:		Un-Sat.:	
4.2	Forward, sideways and backwards hover manoeuvres	Sat.:		Un-Sat.:	
4.3	STATIONARY HOVER TEST				
4.3a	Mass at the start of this test:	Kg:		Lbs:	
	OGE hover test to be performed in still air conditions and according to the approved flight manual for Prevailing atmospheric conditions.				
4.3b	RECORD:				
a.	AOT:		° C		° F:
b.	Pressure Alt. obtained		Ft		
	Engine: No.:	No. 1	No. 2	Unit	
c.	T.O.T / Exhaust Gas				
d.	Power setting or torque/ Manifold Pressure				
e.	Engine speed			RPM	RPM
5.	FORWARD FLIGHT INCLUDING HANDLING AND FUNCTIONING TESTS				
5.1	Steep turn checks (30° and 45° maximum, check normal response and position and note vibration levels)	Sat.:		Un-Sat.:	
5.2	Maximum forward speed	Altitude		Mph (IAS)	Knots (IAS)
5.3	Vne (Increase to Vne in a shallow dive)	Altitude		Mph (IAS)	Knots (IAS)
5.4	Climb test (at least one minute, recoding the average R/C)	Flight Manual' R/C:		Helicopter's R/C:	
	Mean Mass:	Mean Alt.		Mean OAT:	
5.5	"One ball out" side slip test: LH + RH:	Sat.:		Un-Sat.:	
5.6	Are the freewheeling units functioning correctly?	Sat.:		Un-Sat.:	
5.7	Directional control in LH and RH configuration?	Sat.:		Un-Sat.:	
5.8	Is the handling and functioning of this helicopter and all its installed equipment and services normal in all respects?	Sat.:		Un-Sat.:	
NOTES					
6.	POWER ASSURANCE CHECK				

6.1	Mass at the start of this test:	Kg:		Lbs:	
6.2	a.	Helicopters powered by turbine engines must do a power assurance check in accordance with data given in the approved Flight manual. Results must be plotted on copies of power assurance graphs obtained in the flight manual and attached to this form.			
6.2	b.	Helicopters powered by reciprocating engines must complete an OGE hover performance in accordance with data given in the approved Flight manual. Results must be plotted on copies of hover graphs obtained in the flight manual and attached to this form.			
NOTES					
7. AUTOROTATION TEST					
7.1	Mass at the start of this test	Kg:		Lbs:	
Results must be plotted on copies of autorotation graph(s) obtained in the flight manual or maintenance manual and attached to this form.					
7.2 Record:					
a.	Rotor speed			RPM:	
b.	Airspeed	Mph (IAS):		Knots (IAS):	
c.	Press. Alt. at start of autorotation			Ft:	
d.	O.A.T at start of autorotation			°C:	
NOTES					
CERTIFICATION					
I, the undersigned		<i>(full name in capitals)</i>			
hereby certify that the above-mentioned aircraft has been test flown and that the data presented is completed and accurate.					
TEST PILOT'S REMARKS ABOUT THIS TEST					
SIGNATURE OF TEST PILOT		NAME IN BLOCK LETTERS		DATE	
PILOT LICENCE NUMBER					
CONTACT NUMBER			CATEGORY & RATING		