

Emergencies R66 Turbine

Autorotation procedure	-collective down, aft cyclic to get nose up
7 total on processing	(95–106 RRPM / 70 KIAS)
	-max glide: 90% RRPM / 90 KIAS
	-min ROD: 90% RRPM / 60 KIAS
Air restart	-normal AR procedure
	-N1>20% → Push start button
	-N1<20%:
	-Fuel cutoff – Pull OFF
	-Throttle - CLOSED
	-Start button – Push and release
	-N1 15% or above – Push fuel cutoff ON
	-After peak MGT – Throttle full open
GOV failure	-if N2 overspeeds → control N2 with throttle
	-if N2 underspeeds, verify throttle full open and
	reduce collective
	-if manual control not possible → perform AR
Electrical fire in flight	-master battery switch – OFF
	-generator switch – OFF
	-open cabin vents
	-land immediately → Fuel cutoff and fuel valve OFF
	-extinguish fire
Fire in flight	-enter AR
Total Condition of the	-cabin heat – OFF
	-if engine is running – normal landing
	-if engine stops running, pull fuel cutoff and fuel valve
	and perform AR landing
Engine fire during start	-fuel cutoff – pull OFF
	-start button push and release
	-fuel valve knob – pull OFF -battery switch OFF, when MGT<150° or if fire
	worsens
	-pull rotor brake and exit aircraft
Loss of TR thrust in flight	•
	 -indicated by nose right yaw, cannot be stopped by left pedal
	-Close throttle and enter AR with 70 KIAS
	-select landing site
	-perform AR landing, preferably on hard surface
	-if not possible, continue forward flight towards
	suitable terrain
Loss of TR thrust in hover	-immediately roll off throttle
	-raise collective just before touchdown to cushion
	landing
HYD system failure	-adjust airspeed for comfortable control
	-HYD switch – verify ON
	-if HYD not restored, HYD switch OFF
	-land as soon as practical
Tachometer failure	-use remaining tach to monitor RPM
	-allow GOV to control RPM
	CHOW COVID CONTROLLER IVI



Helicopter School Association Warning lights R66 Turbine

ENGINE OIL	-loss of engine oil pressure
	-check oil pressure gauge
	-if gauge confirms pressure loss, land immediately
ENG FIRE	-indicates fire in engine compartment →procedure
MR TEMP / PRESS	-excessive temp or low oil pressure of MRGB
	-land immediately
MR CHIP*	-indicates metallic particles in MRBG
TR CHIP*	-indicates metallic particles in TRGB
ENGINE CHIP*	-indicates metallic particles in ENGINE
GEN	-GEN failure
	-turn off non essential electrical equipment
	-GEN switch to RESET and back ON
	-if light stays on, land as soon as practical
LOW FUEL	-indicates approx 5 USG Fuel
	-engine will run out of fuel after 10 min MCP
FUEL FILTER	-fuel filter contamination
	-if no other indication of a problem, land as soon
	as practical
	-if accompanied by erratic engine operation, land
	immediately
LOW RPM	-rotor RPM below 95%
	-immediately lower collective
	-verify throttle full open and apply aft cyclic
COWL DOOR	-fuel filler cowl door, right engine cowl door or
	baggage door not closed
	-land as soon as practical
AIR FILTER	-air filter blocked
	-engine operating on unfiltered air via bypass
	-land as soon as practical
EMU	-indicates EMU status while depressed
	-fast blinking→exceedance detected (4 per second)
	-slow blinking→ EMU failure (1 per 2 seconds)
	-steady light→ normal operation
ROTOR BRAKE	-rotor brake engaged
	-release immediately in flight or before starting engine

^{*} If light is accompanied by any indication of a problem, such as noise, vibration or temperature rise, land immediately. If there is no other indication of a problem, land as soon as practical.