

**FLIGHT OPERATION INSTRUCTION – 102**  
**V1.0 Mar 11**

## **Helicopter Turbine Engine Trend Monitoring**

As part of the Skyline Aviation CAA approved Maintenance Program an engine trend check must be carried out for each aircraft "Technical Log" page. Pilots are responsible for this task.

These trend checks allow pilots and engineers to monitor any abnormalities that might arise over the course of a maintenance period.

Trend checks can be incorporated into your cruise check's e.g., Fuel P, Oil Temp & Pressure, Trend..etc

		<b>Trend Check to be carried out at @ 2000", 1013 , 75%Tq</b>					
Nr		Ng		T4		OA T	
P/ A		OT/ P		Fuel P		Vdc	

*AS350 Trend Check Example*

Follow the instructions held within the Trend Check graph incorporated into the aircraft Technical Log. In the example above the pilot should set the altimeter subscale to 1013HPa, adjust altitude to 2000 feet, maintain 2000 feet at a torque setting of 75% for 2-3 minutes to stabilize engine parameters, record engine parameters, once recording is completed reset area or local QNH on the altimeter, and finally transfer recordings onto the aircraft computer Service Record.

**Note:** Trend check requirements/parameters differ between aircraft types. For example the trend check torque setting for the AS350 is 75%, whereas for the BK117 it is 60%. Pilots must check the particular aircraft trend check requirements prior to undertaking a trend check to ensure accuracy with recordings.