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**AIRWORTHINESS
OPERATIONS**

EXTENSIONS ON TIME BETWEEN OVERHAUL (TBO): TURBINE ENGINES

1. Numerous requests are received by the Namibia Civil Aviation Authority concerning procedures to be followed when placing an aircraft onto a fleet granted a TBO extension and approved by the Executive Director. The Executive Director has ruled as follows:
2. The procedure for calculating the time remaining to overhaul is determined by the following formula: -

$$x = y \times \frac{a}{b}$$

x = time remaining to overhaul on the new program
y = time remaining to overhaul on the old program
a = new program TBO
b = old program TBO

Example:

An aircraft is transferred to another operator. The means of transfer (sale or lease etc.) does not affect the calculation. The first operator has a TBO of 3000 hours on the engines. The second operator has a TBO of 5000 hours. The engine concerned has been in operation for 2000 hours.

Time remaining to overhaul on old program

(y) = 1000 hours New program TBO

(a) = 5000 hours Old program TBO

(b) = 3000 hours

Time remaining to TBO on the new program $(x) = y \times \frac{a}{b}$

$$\begin{aligned} &= 1000 \times \frac{5000}{3000} \\ &= 1666.67 \text{ hours} \end{aligned}$$

Added to current hours of 2000 gives a permitted TBO of 3666.67 hours.

3. In this case, no extension will be allowed, as the engine would be considered to be on an established program.