

NEPALESE CIVIL AIRWORTHINESS REQUIREMENTS

SECTION E

MANUALS AND RECORDS

CHAPTER E.4

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FLIGHT MANUALS

1. GENERAL

- 1.1 A Flight Manual is manual associated with, and forming part of, the Certificate of Airworthiness. It prescribes the flight limitations within which the aircraft may be considered airworthy, and instructions and information necessary to the flight crew members for the safe operation of the aircraft.
- 1.2 The Flight Manual for each aircraft must be approved by the Director General
- 1.3 Aircraft for which a Certificate of Airworthiness is in force shall carry an approved Flight Manual on each flight, except that the Director General may exempt aircraft of simple design with a maximum weight not exceeding 2,800 kg. from this Requirement if:
 - i) No Flight Manual was issued as part of the Certificate of Airworthiness by the State of Manufacture, or
 - ii) The limitations, instructions and information are promulgated by some document other than a Flight Manual.

2. CONTENT OF FLIGHT MANUAL

- 2.1 A Flight Manual shall contain all the information prescribed by these Requirements and any other information which the Director General may require to be included.
- 2.2 If applicable to the particular aircraft, a Flight Manual shall contain as a minimum, the following information:
 - a) Identification of the engines by manufacturer and type.
 - b) Identification of the propellers by manufacturer, type, diameter and pitch setting.
 - c) The specification of fuel to be used and the total and unusable capacities of the fuel system.
 - d) The specification of oil to be used and capacity of each oil system.
 - e) The following operational limitations:
 - i) Restrictions on I.F.R., night operations and flight in icing conditions.
 - ii) Airspeed limitations.

- iii) Manoeuvres permitted and manoeuvres prohibited.
 - iv) Weight and Centre of Gravity limitations.
 - v) Flight load factors.
 - vi) Powerplant limitations.
 - vii) Minimum flight crew and permitted total occupants.
 - viii) Smoking restrictions.
 - ix) Interpretation of placards and instrument markings.
- f) Emergency procedures
 - g) Normal procedures:
 - i) Fuel system management
 - ii) Stalls
 - iii) Spinning
 - iv) Aerobatics
 - h) Performance
 - i) Climb
 - ii) Stalling speed
 - iii) Glide angle
 - iv) Take-off and landing
 - v) Maximum designated cross-wind component.

2.3 If embodiment of a modification or the installation or removal of equipment results in variation of Flight Manual data, the Director General may require or approve a supplement containing revised data to be added to the manual.

2.4 As required by Chapter C.6, a Weight and Balance Supplement must be added to each Flight Manual to inform the flight crew (and other persons responsible for loading) of the Empty Weight and the Empty Weight Centre of Gravity position, and to list the removable equipment included in the Empty Weight. The Weight and Balance Supplement shall be amended whenever the aircraft is reweighed or the Empty Weight is changed by the installation or removal of components or equipment.

Note: The Weight and Balance Supplement shall be in the form C.6.1 given in Appendix-1 of Chapter C.6.

2.5 Flight Manual data shall either be given in the following units or shall include conversion tables for converting to these units:

Weight	- Kilograms and pounds
Temperature	- Degrees celcius
Short distances	- Meters and feet
Long distances	- International nautical miles
Height	- Feet
Pressure	- Kilopascals and pounds per sq. inch
Liquid quantity	- Liters or U.S. gallons
Speed	- Knots

3. APPROVAL OF A FLIGHT MANUAL

- 3.1 The owner or operator of an aircraft for which an application to the Director General is made for an initial Certificate of Airworthiness shall supply with his application two copies of the proposed Flight Manual for the aircraft. If available, evidence of the approval of part or all of the Flight Manual by the Airworthiness Authority of the country of origin of the aircraft shall also be submitted.

Note: If evidence of approval by another Contracting State is not available, the Director General may withhold his approval until detailed design data and flight test reports are submitted.

- 3.2 Approval of the Flight Manual for a particular aircraft will be granted only when it is established that it meets the standards prescribed in these Requirements and that all data is valid for the particular aircraft, including the data in the Weight and Balance Supplement.
- 3.3 Approval of a Flight Manual will be granted by returning one copy, signed by an authorized person from Airworthiness Division and stamped "APPROVED" to the owner or operator. The other copy will be retained by the Airworthiness Division, Aviation Safety Directorate, Civil Aviation Authority of Nepal.

4. AMENDMENT OF A FLIGHT MANUAL

- 4.1 A Flight Manual may need to be amended if the aircraft is modified or repaired, or as a result of instructions from the aircraft manufacturer or an Airworthiness Authority. The Director General may order amendments in the interest of safety. The owner or operator of an aircraft may also request an amendment for operational reasons and this may be approved if it is proven that there will be no adverse effect on safety.
- 4.2 No amendment shall be incorporated into a Flight Manual until approval has been granted. An applicant for approval of a Flight Manual amendment shall submit two copies of the proposed amendment, together with a justification and any supporting data, to the Airworthiness Division, Aviation Safety Directorate, Civil Aviation Authority of Nepal. The return of one copy bearing the approval stamp and signature of an authorized person from the Airworthiness Division signifies that approval has been granted.

Civil Aviation Authority of Nepal.