

# NEPALESE CIVIL AIRWORTHINESS REQUIREMENTS

## SECTION D

### APPROVAL PROCEDURES

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CHAPTER D.2

ISSUE 2  
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### DESIGN ORGANIZATIONS

#### 1. GENERAL

- 1.1 This chapter prescribes the requirements for grant of Certificate of Approval to a person or design organization and also specifies the application procedure for grant, extension or renewal of a Certificate of Approval.
- 1.2 Chapter C.5 paragraph 3.4 of these Requirements prescribes that any person or organization completing technical assessments, e.g. stress analysis or performance estimates required for approval of the design of a modification or repair must hold approval for the purpose.
- 1.3 Approval will be granted by the issue of a Certificate of Approval and such a certificate will be granted only to a person or an organization which meets the standards prescribed in this Requirement.
- 1.4 A person or design organization approved by the Director General may within the scope of approval issue reports showing compliance with the applicable Airworthiness design standards.

#### 2. APPLICATION FOR APPROVAL

- 2.1 A person or an organization requiring approval to design a modification or repair must apply in writing to the director General through Airworthiness Division, Aviation Safety Directorate, Civil Aviation Authority of Nepal, Kathmandu.
- 2.2 The application for approval must state the scope of the design work it is proposed to undertake. Subject to meeting the prescribed conditions a person or an organization (such as an aircraft operator's Design Section) may be approved for the design of, or changes to:
  - Aircraft structure, including load determination and stress analysis.
  - Aircraft components and systems.
  - Avionic installations.
  - Flight tests and performance determination.
  - Airborne equipment.
- 2.3 The approval may be specific for particular aircraft types or components or may be of a general nature within specified limitation.

- 2.4 The application must be accompanied by a list of aircraft or aircraft components and systems etc for which design of a modification or repair is to be undertaken and a statement detailing the facilities, technical data, adequately qualified personnel, tools and equipments available for the purpose.

*Note: If the design organization forms part of an operator's maintenance organization as a Design Section, it shall be detailed in the Operator's Maintenance Procedure Manual, if it is a separate design organization it shall be detailed in an Engineering Procedures Manual.*

### **3. CONDITIONS FOR GRANT OF APPROVAL**

- 3.1 The Director General will grant a Certificate of Approval to a person or design organization only if it meets the conditions prescribed in this Requirement.
- 3.2 A person or design organization shall be eligible for approval to design a modification or repair scheme only if:
- a) The premises and equipment for the preparation and storage of drawings reports are clean and adequate.
  - b) There are available up-to-date copies of the applicable Airworthiness design standards, material and hardware specifications and other technical data relevant to the scope of the approval.
  - c) There is access to appropriate test facilities where these are needed to substantiate designs.
  - d) There is a nominated Chief Designer to control all design work and accept responsibility for compliance with the appropriate Airworthiness design standards. The Chief Designer must hold a recognized degree in engineering and have a minimum of five years experience of design, stress analysis or associated work.
  - e) The Chief Designer has a position of authority within his employer's organization so that his decisions on the certifications of a design as complying with the appropriate Airworthiness design standards cannot be overruled.
  - f) The Chief Designer has sufficient supporting staff with adequate qualifications to ensure that the drawings and reports for the volume and class of work proposed will be accurate.
  - g) There are written instructions for control of the procedures governing the numbering and issuing of drawings, the drawing standards to be used and the certification of drawings. These instructions may form an Engineering Procedures Manual for the design organizations, or be part of a comprehensive manual, such as an Operator's Maintenance Procedure Manual.

#### **4. CONDITIONS FOR EXTENSION OR RENEWAL OF APPROVAL**

- 4.1 A persons or organization approved to perform the design of, or changes to specified works may apply for its approval to be extended to cover additional works. The application must be made in writing and must detail the reasons for the application and the facilities available to perform additional works.
- 4.2 A Certificate of Approval is valid for one year. On expiry it may be renewed by the Director General if the person or organization continues to meet the conditions applicable to the original grant of the certificate. Application for renewal of a Certificate of Approval must be made in writing not later than two weeks before expiry of the existing certificate.

#### **5. INSPECTION OF A DESIGN ORGANIZATION**

- 5.1 A person or organization applying for the issue, extension or renewal of a Certificate of Approval is subject to inspection by the authorized person from the Airworthiness Division
- 5.2 An applicant for approval shall provide them with any information or access required for verifying the capability of the person or organization to meet the conditions of approval.
- 5.3 A person or design organization holding a Certificate of Approval is subject to random inspections by an authorized person from the Airworthiness Division although such inspections will only be made at reasonable times.
- 5.4 An approved person, or design organization, or an applicant for approval, which is not in Nepal, is also subject to initial or random inspection. The expenses of such an inspection shall be borne by the Nepalese operator utilizing the foreign design organization.
- 5.5 An authorized person inspecting a design organization for the compliance with this Requirement may inspect:
  - a) premises for condition, cleanliness, fire protection, etc.
  - b) drawing equipment, tools and test facilities for adequacy, condition, etc.
  - c) availability of up-to-date copies of the applicable Airworthiness design standards, material and hardware specifications and other technical data relevant to the scope of the approval,
  - d) adequacy of appropriately qualified staff,
  - e) the Operator's Maintenance Procedure Manual or Engineering Procedures Manual as appropriate comprising the data and instructions for performance of the works specified in the application or the conditions of approval.

## **6. THE CERTIFICATE OF APPROVAL**

- 6.1 A person or an organization approved to design a modification or repair scheme will be issued with a Certificate of Approval. A specimen certificate is shown in Form D.2.1 of Appendix 1. This Certificate shall be displayed in, or adjacent to, the office of the approved person or Chief Designer of the approved design organization as appropriate.
- 6.2 With each Certificate of Approval will be an associated Schedule of Conditions of Approval. This schedule will detail the extent of design work which the person or design organization is approved to perform. A specimen schedule is shown in Form D.2.2 of Appendix 2.
- 6.3 The Director General may suspend or cancel a Certificate of Approval, or amend the Schedule of Conditions of Approval, if the person or design organization is failing to maintain the standards applicable to approval.

## **7. PRIVILEGES OF APPROVAL**

- 7.1 An approved person or design organization may issue reports as specified in paragraph 1.4 of this chapter.
- 7.2 Other privileges may be approved through approval of an Operator's Maintenance Procedure Manual or Engineering Procedures Manual as appropriate. These privileges may include some delegation of authority to the organization's Chief Designer if the Director General is satisfied that an equivalent level of competency will be maintained.

### **Civil Aviation Authority of Nepal.**

**CIVIL AVIATION AUTHORITY OF NEPAL**

**CERTIFICATE OF APPROVAL**

Number .....

THIS IS TO CERTIFY THAT .....

AT THE FOLLOWING LOCATION.....

.....

.....

IS HEREBY APPROVED AS A DESIGN ORGANIZATION UNDER THE CONDITIONS OF  
CHAPTER D.2 OF NEPALESE CIVIL AIRWORTHINESS REQUIREMENTS TO  
PERFORM THE DESIGN OF, OR CHANGES TO :

.....

.....

IN ACCORDANCE WITH THE CURRENT SCHEDULE OF CONDITIONS

This certificate comes into force on .....200 .....

This certificate expires on .....200 .....

.....  
For Director General

Date: .....

The approval granted by this certificate is subject to compliance with Nepalese Civil  
Airworthiness Requirements.

**CIVIL AVIATION AUTHORITY OF NEPAL**  
**SCHEDULE OF CONDITIONS OF APPROVAL**

The Design Organization of Fewa Airlines of Nepal is approved to perform the design of, or changes to the following works pursuant to Certificate of Approval No.19.

- 1. Aircraft structure, including load determination and stress analysis  
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- 2. Aircraft components and systems.  
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- 3. Avionic components and systems.  
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- 4. Flight tests and performance determination.  
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- 5. Airborne equipment  
.....

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For Director General  
Date : .....