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DULV Manufacturing Approval

In accordance with § 10 (3) LuftGerPV[1] DULV can grant an approval to a manufacturing company to carry out tests after production and prepare the statement of conformity which ensures the conformity to the Type Certificate if the manufacturing company has the technical, personnel and organizational resources, to take the responsibility for it. Manufacturing companies which achieve this authorization will be listed in the future under "DULV Approved Manufacturing Companies". The purpose of the statement of conformity (as the result of the conformity check) is to ensure the airworthiness after production and the conformity to the Type Certificate. It is a check of the conformity of the aircraft with the relevant design data within the scope of production (§ 1 (2) 2. LuftGerPV)[2]. Based on the statement of conformity DULV issues the Certification of Airworthiness and the aircraft can be registered in Germany.

1.) Application

The manufacturing company must hand in an informal application for the Manufacturing Approval. This letter must contain a short introduction of the company and a list of persons who will be authorized to sign documents for the conformity check. If the company is already certified by the EASA though the national agency the certificated can be handed in to follow a simplified procedure to achieve the DULV Manufacturing Approval. Other production certificates can be handed in as well and will be evaluated by the DULV.

2.) Documentation

a) Standard Procedure for non-approved companies

Non-approved companies must follow the provide the required documentation and follow the procedure defined and described in "*DULV Manufacturing Approval.pdf*".

b) Simplified procedure for EASA Production Organisations (POA)

- Company Description
- Company Organigram
- Authorized persons and functions in the conformity check process
- List of Equipment to be used to perform conformity checks (avionic test equipment, scales, etc.)

3.) Audit

An audit by the DULV is necessary to achieve the approval. In this audit the company must present their capability to perform conformity checks. The presentation should at least contain the following points:

- Introduction of the company
- Introduction of the QMS (Quality Management System)
- Parts production (metal parts and composite parts)
- Demonstration of the assembly line and the final check
- Demonstration of a weighing of an aircraft

[1] „(3) In the intitial conformity check of an air sports product is tested,
1. whether the aircraft conforms to the type and is airworthy
2. whether the operating instructions belonging to the device according to the device data sheet are available and correspond to the recognised operating instructions and
3. whether the marking to prove origin, where required, is properly applied."

[2] „(2) Airworthiness shall be ensured
…2. as part of the manufacturing process, by checking the conformity of the aeronautical product to the applicable design data (unit verification)…;"

4.) DULV approval

After a successful audit DULV will issue the DULV Manufacturing Approval. The manufacturing company can perform conformity checks in accordance with §10 (3) combined with § 1 (2) 2. LuftGerPV.

5.) Conformity Check Documentation to be delivered to the DULV for each aircraft:

- **Company check list after production**
  Company document of the check after the aircraft is completed.

- **Adjustment report**
  Measurement of the deflections of all moveable surfaces to show that the aircraft was produced within the allowed tolerances.

- **Weight and balance incl. equipment list**

- **Flight report**
  Factory flight after production line

- **EASA FORM ONE** documents for radio and transponder
  Ultralight aircraft in German airspace must be equipped with a radio and - if the ultralight aircraft will be operated in transponder mandatory zones – a transponder. Both radio and transponder must be certified by the EASA.

- **Rescue system: Certificate of conformity & protocol of the initial inspection**
  To be issued by the holder of the German type certificate of the rescue system

- **Avionic Check protocol**
  If radio and transponder is installed, an avionic check is necessary and can be performed by a DULV approved manufacturing company if capability and equipment has been demonstrated during the audit.

  A transponder code must be allocated by DULV before. The allocation form is available on the DULV-website:

- **Statement of Conformity**
  The manufacturing company must declare that the provided documentation (listed in No.5) is correct, and the ultralight aircraft conforms to its type design and is safe for operation. (Like this: “the inspected aircraft conforms to the certified type and is airworthy”!)

- **Declaration of Conformity of the holder of the Type Certificate**
  Applicable if the holder and the manufacturing company are not the same legal person

  A declaration in which the holder of the type certificate confirms the ultralight aircraft conforms with the type design (type certificate number) and that the provided documents listed in No.5 are correct.

6.) Fees and Charges

- working hours (75 € per hour) and travel costs for the audit and the evaluating of the documentation

- 300 € one-off payment for the approval (according to the cost regulation of the aviation administration)

- 60 € archiving and checking of conformity check documentation (to be paid for each aircraft)