

Shop Approval



Approval No: **74205/11**

For the **Repair of Rotor Blades
fabricated from Fibre Reinforced Plastics**

The company **juwi Management GmbH
Energie-Allee 1
55286 Wörrstadt
Germany**

has applied for the Shop Approval. On the basis of the results of checks regarding the company's production facilities and the qualification of the personnel in charge the above mentioned company is approved within the scope as follows:

Supervisory Personnel **Mr Reinhard Kurt Maaß
Mr Klaus Friedsam**

Head of Repair Team **listed in the annex**

Normative Reference **Rules for Classification and Construction
II – Materials and Welding
Part 2 – Non-metallic Materials, Chapter 1
Fibre Reinforced Plastics and Bonding, Edition 2006**

Remarks **This approval is related to field repairs only.**

This document consists of this page and a one-page annex which is integral part of the approval.

This Shop Approval will be expired on 19.10.2013.

Hamburg, 20.10.2011

Germanischer Lloyd Industrial Services GmbH


i.V. Mike Woebeking


i.A. Gerd Schellstede

Germanischer Lloyd Industrial Services GmbH
Renewables Certification
Brooktor Kai 18
20457 Hamburg, Germany

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Annex

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Approval No.: **74205/11**

Reference Documents **F508D-07, dated 26.08.2011**

Approved Basis **Repair inspection on 14.09.2011**

Head of Repair Team **Mr Matthias Rötten**

Approval conditions

The company is obliged to repair rotor blades according to the Rules of Germanischer Lloyd whenever the components or blades are design approved by Germanischer Lloyd Industrial Services GmbH, Renewables Certification (GL). This obligation is effective without detriment, regardless of contracts closed between manufacturer and customer. If no Shop Approval is necessary for the repair of certain components being examined by GL, the company is only free of the obligation if they submit notification in writing to GL before repair begins.

In case of repairs of main load bearing structures the company shall prepare a repair specification before the repair begins and submit the specification to GL. The specification has to clearly define the requirements and tolerances for materials, procedures and environmental conditions. This repair specification has to be approved by GL prior to repair starts.

Alterations or modifications within the company having substantial influence upon the repair quality (e. g. alterations in repair methods and/or repair facilities) and changes in the qualifications of personnel are to be immediately indicated in writing to GL.

Should any check reveal any deviations from the shop approval a determined period will be arranged for the elimination of these deviations and if necessary a subsequent examination will be undertaken. Should the subsequent examination establish that the deviations have not been eliminated, GL is entitled to withdraw the shop approval.

Should GL get knowledge about any damages on products the company is responsible for, GL is entitled to suspend the shop approval until the deficiencies are remedied or to withdraw the shop approval.

End of Annex

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