

Note on Engineering Details

No: DWM-Stgr-extern-002

Title: CMS at Type Certification for Offshore Wind Energy

Ref.: /1/ Germanischer Lloyd "Guideline for the Certification of Offshore Wind Turbines" Edition 2005

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1. Motivation

The "Guideline for the Certification of Offshore Wind Turbines" /1/ requires an implementation of a condition monitoring system (CMS) in offshore wind turbines (OWT), see 13.1 (2).

The implementation of a specific CMS in a specific OWT has to be assessed by GL. The successful assessment of the implementation procedure is then documented in a Certification Report. In /1/ Section 1.2 (Extent on Certification) this procedure is not integrated continuously. Further on Section 10.8 (Witnessing of the Commissioning) has to be expanded.

2. Additions to /1/

In Table 1 the necessary additions to /1/ are listed.

Table 1: Necessary additions to /1/

Section	Addition
1.2.2.2.3 (1)	- description of the condition monitoring system
1.2.2.2.4	(4) The description of the condition monitoring system is also checked for plausibility. Special care shall be taken on the number of sensors to be installed, the location of the sensors and their working range.
Fig. 1.2.2, 5 th frame	- Condition monitoring system
1.2.2.3.2 (3)	- condition monitoring system (Chapter 13)
10.8.1 (1)	... of the safety-related tests in the commissioning manual (see Section 9.2). In this procedure the installation of the condition monitoring system will also be witnessed.

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