Deutsche Akkreditierungsstelle

Annex to the Partial Accreditation Certificate D-PL-11134-01-02 according to DIN EN ISO/IEC 17025:2018

Valid from: **13.05.2024**

Date of issue: 13.05.2024

This annex is a part of the accreditation certificate D-PL-11134-01-00.

Holder of partial accreditation certificate:

DNV Energy Systems Germany GmbH
Brooktorkai 18, 20457 Hamburg

with the location

DNV Energy Systems Germany GmbH
Sommerdeich 14 b, 25709 Kaiser-Wilhelm-Koog

The testing laboratory meets the requirements of DIN EN ISO/IEC 17025:2018 to carry out the conformity assessment activities listed in this annex. The testing laboratory meets additional legal and normative requirements, if applicable, including those in relevant sectoral schemes, provided that these are explicitly confirmed below.

The management system requirements of DIN EN ISO/IEC 17025 are written in the language relevant to the operations of testing laboratories and they conform to the principles of DIN EN ISO 9001.

Abbreviations used: see last page

Tests in the fields:

Acoustic emission and immission measurements; Acoustic impact assessments; Module Immission Control Acoustic Noise - Group V: Determination of Noise

Within the scope of accreditation marked with *, the testing laboratory is permitted, without being required to inform and obtain prior approval from DAkkS, to use standards or equivalent testing methods listed here with different issue dates.
The testing laboratory maintains a current list of all testing standards within the flexible scope of accreditation.

1 Acoustic emission and immission measurements and acoustic impact assessments

DIN EN ISO 3741 * 2011-01	Acoustics - Determination of sound power levels and sound energy levels of noise sources using sound pressure - Survey method using an enveloping measurement surface over a reflecting plane
DIN EN ISO 3744 * 2011-02	Acoustics - Determination of sound power levels and sound energy levels of noise sources using sound pressure - Engineering method in an essentially free field over a reflection plane
DIN EN ISO 3746 * 2011-03	Acoustics - Determination of sound power levels and sound energy levels of noise sources using sound pressure - Precision methods for reverberation test rooms
DIN 45635-1 * 1984-04	Measurement of noise emitted by machines; airborne noise emission; enveloping surface method; basic method, divided into 3 grades of accuracy
DIN 45645-1 * 1996-07	Determination of rating levels from measurement data - Part 1: Noise immission in the neighbourhood
DIN 45680 + Beiblatt 1 * 1997-03	Measurement and assessment of low-frequency noise immissions in the neighbourhood; Measurement and assessment of low-frequency noise immissions in the neighbourhood - Guidelines for the assessment for industrial plants
DIN 45681 * 2005-03; + Berichtigung 2, 2006-08	Acoustics - Determination of tonal components of noise and determination of a tone adjustment for the assessment of noise immissions
DIN ISO 9613-2 * 1999-10	Acoustics - Attenuation of sound during propagation outdoors - Part 2: General method of calculation
FGW TR 1, Rev. 19 * 2021-03	Determination of noise emissions

IEC 61400-11, Ed. 3.1 * 2018-06	Wind turbine generator systems - Part 11: Acoustic noise measurement techniques
ISO 1996-2 * 2017-07	Acoustics - description, measurement and assessment of environmental noise - Part 2 Determination of environmental noise levels
BWEA 2008-02	British wind energy association "Small wind turbine performance and safety standard"; 2008-02-29

2 Procedures Module Immission Control

Specifications according to module immission control and DIN 45688:2014

Gruppe V: Determination of sounds			
Standard / Guideline / Technical rule		**QM-document**	
Titel	**Description**		
TA Lärm 1968-07	General Administrative Regulation on Installations Requiring a Permit pursuant to Section 16 of the Trade, Commerce and Industry Regulation Act; Technical Instructions on Protection against Noise - TA Lärm (in conjunction with: VDI 2058 Part 1:1985-09 "Assessment of occupational noise in the neighbourhood")	ISI-RA-MEA-4600 ISI-RA-MEA-4601 ISI-RA-MEA-4602 ISI-RA-MEA-4603 ISI-RA-MEA-4604 ISI-RA-MEA-4605 ISI-RA-MEA-4606 ISI-RA-MEA-4610 2021-12	
TA Lärm 1998-08 (issue 2017)	Sixth General Administrative Provision to the Federal Immission Control Act; Technical instructions (TI) for the protection against noise - TA Lärm (TI Noise)	ISI-RA-MEA-4600 ISI-RA-MEA-4601 ISI-RA-MEA-4602 ISI-RA-MEA-4603 ISI-RA-MEA-4604 ISI-RA-MEA-4605 ISI-RA-MEA-4606 ISI-RA-MEA-4610 2021-12	

The procedures listed under Point 2 correspond to the requirements for the
"Proof of expertise for investigations in the field of immission control"
LAI Immission Control Module ”(updated by L/W/V from 30.01.2018)

For the immission control regulated inspection and technical task
Group V
the competence is confirmed.

Abbreviations used:

BWEA	British Wind Energy Association
DIN	German Institute for Standardization
EN	European Standard
FGW	Fördergesellschaft Windenergie und andere dezentrale Energien
IEC	International Electrotechnical Commission
ISI-RA-MEAxxx	In house method of the GL Garrad Hassan Deutschland GmbH
ISO	International Organisation for Standardisation
TA Lärm	Technical Guidelines for noise reduction