Deutsche Akkreditierungsstelle

Annex to the Partial Accreditation Certificate D-ZE-14153-01-02 according to DIN EN ISO/IEC 17065:2013

Valid from: **11.04.2023**

Date of issue: 28.07.2023

This annex is a part of the accreditation certificate D-ZE-14153-01-00.

Holder of partial accreditation certificate:

TÜV SÜD Industrie Service GmbH
Certification Body Wind Turbines

with the locations:

Westendstrasse 199, 80686 Munich, Germany
Heidenkampsweg 51, 20097 Hamburg, Germany

The certification body meets the requirements of DIN EN ISO/IEC 17065:2013 to carry out the conformity assessment activities listed in this annex. The certification body 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 17065 are written in the language relevant to the operations of certification bodies and confirm generally with the principles of DIN EN ISO 9001.

Certifications of products, processes and services in the fields:

Wind turbines and their components;
Project certification of wind farms (onshore and offshore);
Rahmenvorgaben der WSV zur Kennzeichnung von Offshore-Anlagen

Without previous information and agreement of the DAkkS - the certification body is allowed to use within the accreditation fields marked with * different revisions of the herewith specified Certification

Program / Requirements Document. The certification body has at its disposal an updated list of all documents in the accreditation field.

The certification work is performed at the location as indicated below.

1 Wind turbines and their components, Project certification of wind farms (onshore and offshore (location: Munich)

IEC 61400-22 Ed.1.0 2010-05	Wind turbines - Part 22: Conformity Testing and Certification *(withdrawn document)*
IS IEC 61400-22 2010	Wind turbines – Part 22: Conformity Testing and Certification
IEC WT01 Ed.1.0 2001-04	IEC System for Conformity Testing and Certification of Wind Turbines - Rules and procedures
DIN EN 61400-22 2011-10	Windenergieanlagen – Teil 22: Konformitätsprüfung und Zertifizierung
IECRE OD-501 Ed.2* 2018-05	Type and Component Certification Scheme
IECRE OD-502 Ed.2* 2018-10	Project Certification Scheme
Germanischer Lloyd 2010/2003 w. suppl. 2004 2010-07/2003-11	Guideline for the Certification of Wind Turbines
Germanischer Lloyd 2009 2009-01	Guideline for the Continued Operation of Wind Turbines
Germanischer Lloyd 2012/2005 2012-12/2005-06	Guideline for the Certification of Offshore Wind Turbines
BSH 7004 Rev. 2.0 2014-02	Standard Baugrunderkundung Mindestanforderungen an die Baugrunderkundung und -untersuchung für Offshore-Windenergieanlagen, Offshore Stationen und Stromkabel
BSH 7005* 2015-12 Aktualisierung 2021	Standard Konstruktion Mindestanforderungen an die konstruktive Ausführung von Offshore-Bauwerken in der ausschließlichen Wirtschaftszone (AWZ) inkl. 1. Fortschreibung 28.07.2015 – Berichtigung vom 01.12.2015 Aktualisierung vom 01.06.2021

TAPS - 2000 2003-04	Provisional Type Certification Scheme for Wind Turbine Generator Systems in India
GB/Z 25458 2010-11	Rules and procedures for conformity testing and certification of wind turbine generator system
GB/T 35792:2018 2018-02	Wind turbines – Conformity testing and certification

Related standards:

IEC 61400-1 Ed.4* 2019-02 DIN EN 61400-1* 2019-12	Wind energy generation systems - Part 1: Design requirements
IEC 61400-2 Ed.2.0 2006-03 DIN EN 61400-2 2007-02	Wind turbines - Part 2: Design requirements for small wind turbines
IEC 61400-2 Ed.3.0 2013-12	Wind turbines - Part 2: Small wind turbines
IEC 61400-3 Ed.1.0 2009-02 DIN EN 61400-3 2010-01	Wind turbines - Part 3: Design requirements for offshore wind turbines
IEC 61400-3-1* 2019-04	Wind energy generation systems - Part 3-1: Design requirements for fixed offshore wind turbines
IEC TS 61400-3-2* 2019-04	Wind energy generation systems - Part 3-2: Design requirements for floating offshore wind turbines
IEC 61400-4 Ed.1.0* 2012-12 DIN EN 61400-4* 2013-10	Wind turbines - Part 4: Design requirements for wind turbine gearboxes
IEC 61400-5 Ed.1.0* 2020-06	Wind energy generation systems - Part 5: Wind turbine blades
IEC 61400-6 Ed.1.0* 2020-04	Wind energy generation systems - Part 6: Tower and foundation design requirements

DIN EN IEC 61400-8* 2022-05	Windenergieanlagen Teil 8: Design von Windenergieanlagen-Strukturkomponenten
IEC 61400-23 Ed.1.0* 2014-04 DIN EN 61400-23* 2014-12	Wind turbines - Part 23: Full-scale structural testing of rotor blades
IEC 61400-24 Ed. 2.0* 2019-07 DIN EN IEC 61400-24* 2020-11	Wind energy generation systems - Part 24: Lightning protection
IEC 61400-27-1 Ed.1.0 2015-02	Wind turbines - Part 27-1: Electrical simulation models - Wind turbines
DIN EN ISO 12100 2011-03	Sicherheit von Maschinen - Allgemeine Gestaltungsleitsätze - Risikobeurteilung und Risikominderung
DIN EN ISO 12100 Berichtigung 1 2013-08	Sicherheit von Maschinen - Allgemeine Gestaltungsleitsätze - Risikobeurteilung und Risikominderung
DIN EN ISO 13849-1 2016-06	Sicherheit von Maschinen - Sicherheitsbezogene Teile von Steuerungen - Teil 1: Allgemeine Gestaltungsleitsätze
DIN EN ISO 13849-2 2013-02	Sicherheit von Maschinen - Sicherheitsbezogene Teile von Steuerungen - Teil 2: Validierung
DIN EN 50308 2005-03	Windenergieanlagen - Schutzmaßnahmen - Anforderungen für Konstruktion, Betrieb und Wartung
DIN EN 50308 Berichtigung 1 2008-11	Windenergieanlagen - Schutzmaßnahmen - Anforderungen für Konstruktion, Betrieb und Wartung
DIN EN 60204-1 2007-06	Sicherheit von Maschinen - Elektrische Ausrüstung von Maschinen - Teil 1: Allgemeine Anforderungen
DIN EN 60204-1 Entwurf 2014-10	Sicherheit von Maschinen - Elektrische Ausrüstung von Maschinen - Teil 1: Allgemeine Anforderungen
Bayerische Bauordnung BayBO	Bayerische Bauordnung (BayBO)

2017-08	
AWEA 9.1 2009	AWEA Small Wind Turbine – Performance and Safety Standard
BEK 1773 2020-11	Danish Executive Order on technical certification and servicing of wind
Executive Order from the Danish Ministry for Climate, energy and Buildings No. 73 2013-01	Executive Order on a technical certification scheme for wind turbines" („Bekendtgørelse om teknisk certificeringsordning for vindmøller")
GB 18451.1 2012-05	Wind turbine generator systems - Design requirements
GB 25383 2010-11	Wind turbine generator system - Rotor blades
GB/T 19072 2010-11	Tower of wind turbine generator system
GB/T 19073 2008-06	Gearbox of wind turbine generator systems
GB/T 25384:2010 2010-11	Wind turbines – Full scale structural testing of rotor blade
GB/T 25384:2018 2018-12	Turbine blade of wind turbine generator systems Full-scale structural testing of rotor blades
GB/T 19073:2018 2018-02	Wind turbine – Design requirements for gearbox
GB/Z 25427:2010 2010-11	Wind turbine generator systems - Lightning protection
DNVGL-RP-N102 2017-07	Marine operations during removal of offshore installations
DNVGL-RU-OU-0104 2015-07	Self-elevating units
DNVGL-ST-0054 2017-06	Transport and installation of wind power plants

DNVGL-ST-0076 2015-05	Design of electrical installations for wind turbines
DNVGL-ST-0126 2016-04	Support structures for wind turbines
DNVGL-ST-0145 2016-04	Offshore substations
DNVGL-ST-0359 2016-06	Subsea power cables for wind power plants
DNVGL-ST-0361 2016-09	Machinery for wind turbines
DNVGL-ST-0376 2015-12	Rotor blades for wind turbines
DNVGL-ST-0437 2016-11	Loads and site conditions for wind turbines
DNVGL-ST-0438 2016-04	Control and protection systems for wind turbines
DNVGL-ST-C502 2017-08	Offshore concrete structures
DNVGL-ST-N001 2016-06	Marine operations and marine warranty
DNVGL-SE-0190 2015-09	Project certification of wind power plants
DNV-DS-J102 2010-10	Design and manufacture of wind turbine blades, offshore and onshore wind turbines
DNV-OS-C502 2012-09	Offshore Concrete Structures
DNV-OS-J101 2014-05	Design of Offshore Wind Turbine Structures
DNV-OS-J103 2013-06	Design of Floating Wind Turbine Structures

DNV-OS-J201 2013-11	Design of Offshore Substations for Wind Farms
DNV-OS-J301 2013-04	Wind Turbine Installation Units
Germanischer Lloyd Technical Note 067 Rev.5 2013-07	Certification of Wind Turbines for Extreme Temperatures (here: Cold Climate)

2 Rahmenvorgaben der WSV zur Kennzeichnung von Offshore-Anlagen

(location: Hamburg)

Rahmenvorgaben der WSV, Version 3.0* 2019-07	Generaldirektion Wasserstraßen und Schifffahrt – WSV-Rahmenvorgaben zur Kennzeichnung von Offshore-Anlagen, Version 3.0, Stand 01.07.2019

Abbreviations:

AWEA	American Wind Energy Association
BSH	Bundesamt für Seeschifffahrt und Hydrographie (Bundesrepublik Deutschland)
DIBt	Deutsches Institut für Bautechnik
DIN	Deutsches Institut für Normung e.V.
EN	Europäische Norm
IEC	International Elektrotechnical Commission
ISO	International Organization for Standardization
TAPS	Type Approval - Provisional Scheme, Ministry of New and Renewable Energy, India
TS	Technical Specification
WSV	Wasserstraßen- und Schifffahrtsverwaltung des Bundes
GB/T	China National Standards

GB/Z