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TÜV®

Your reference, your message of	Our reference	Telephone, Name	Date
helmut.feldmann@enercon.de	Your email from 2021-10-19	+49 40 8557-2092 Mr. Kägeler	2021-12-02

Confirmation letter: Type Certificate according to IEC 61400-22 – IEC 61400-1 Ed.3/ Ed.4 and Type Approval according to DIBt 2012

Wind turbine: E-160 EP5 E3; 5.56 MW ; Rotor Blade LM78.3 P2; HH min. 98m - max. 166m; 50/60 Hz; Design lifetime: 20 years for IEC IIIA, 25 years for IEC S

Configurations: E-160 EP5-E3-ST-98-FB-C-01; E-160 EP5 E3-HT-166-ES-C-01; E-160 EP5 E3-HST-120-FB-C-01

To whom it may concern:

We, TÜV NORD EnSys GmbH & Co. KG (TÜV NORD) hereby confirm that we have been requested by ENERCON to conduct an evaluation of the E-160 EP5 E3; 5.56 MW; Rotor Blade LM78.3 P2; wind turbine.

The E-160 EP5 E3 is a technical development of the ENERCON E-160 EP5 E2. The certification shall be conducted in accordance to the certification scheme of IEC 61400-22 “Wind turbines – Part 22: Conformity testing and certification”, first edition, 2010-05 in combination

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TÜV NORD EnSys GmbH & Co. KG

with IEC 61400-1 “Wind Turbines – Part 1: Design requirements”, Third edition, 2005-08 and Amendment 1, 2010-10, IEC 61400-1 “Wind Turbines – Part 1: Design requirements”, Edition 4.0, 2019-02 and DIBt 2012 for the respective Type Approval.

The scope contains also the evaluation of loads, safety system and manuals, machinery and structural components, nacelle cover and spinner, rotor blades, electrical components and tower internals.

The following target dates for the milestones (based on ENERCON document submittal schedule D02292086-3.0) are scheduled and agreed for the completion of type certification and can be confirmed from TÜV NORD on the assumption of positive evaluation results.

- Evaluation Reports of the loads as well as the electro technical components:
Target date: 2021-10-29
- Evaluation Report of the rotor blade: Target date: 2021-11-05
- Evaluation Report of the operation- and safety system as well as the manuals:
Target date: 2021-11-12
- Evaluation Report on the mechanical components (incl. structure, nacelle and hub cover): Target date: 2021-11-26
- Final Design Evaluation Conformity Statement of the 98m tower:
Target date: 2021-12-08
- Manufacturing Evaluation: Target date: March 2022
- Type Testing: Target date: May 2022
- Final Type Certificate 98m and 120m tower: Target date: June 2022

In case of questions or remarks, please do not hesitate to contact us.

Yours sincerely

TÜV NORD EnSys GmbH & Co. KG
Project Management

Nils Kägeler