



# STATEMENT OF QUALIFIED TECHNOLOGY

Statement No.:  
SOQT-DNV-SE-0160-07114-0

Issued:  
2025-01-24

Valid until:  
2029-01-24

Issued for:

## **Bolt iQ™ System**

Specified in Annex 1

Issued to:

## **Predictant LLC**

6521 Meridien Dr  
27616, Raleigh, NC, USA

According to:

## **DNV-SE-0160:2021-09 Technology qualification management and verification**

Based on the document:

QR-C-DNV-SE-0160-07114-4

Qualification Report, dated 2025-01-24

The Technology was subjected to all steps of the Technology Qualification Process as described in DNV-SE-0160, and it was found to achieve the targets identified in its qualification basis notwithstanding with the conditions and limitations defined in the qualification report.

Changes of the technology are to be approved by DNV.

Hellerup, 2025-01-24  
For DNV Renewables Certification

**Bente Vestergaard**  
Service Line Leader

Hellerup, 2025-01-24  
For DNV Renewables Certification

**Josue Guifarro**  
Project Manager

# STATEMENT OF QUALIFIED TECHNOLOGY- ANNEX 1

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## General

Description Instructions and equipment to measure preload during installation and inspection of bolted joints

## Measuring equipment

Type Bi-wave ultrasonic transducer with magnetic clamp assembly  
Solid couplant  
Pulser-Echo module  
Tablet PC  
Software

Description Relational time-of-flight measurement with ultrasonic waves

Manufacturer Predictant LLC

## Operating environmental conditions

Temperature ranges 0 °C to 40 °C

Bolt size and grade in scope M30-M72, ISO 898 Grade 10.9

Bolt configuration Standard bolt/washer/nut, galvanized

Stud with nut/washer pair, galvanized

Bolt bending  $\pm 2$  deg.

## Performance metrics

Device accuracy  $\pm 8\%$  of yield stress with 99.73% confidence interval (CI)

$\pm 5\%$  of yield stress with 93.32% CI

## Interfaces

Interface to other components or systems and design loads See QR-C-DNV-SE-0160-07114-4