



APPROVAL OF SERVICE SUPPLIERS

Certificate no.:
AOSS0000EKA
Revision no.:
3

This is to certify that

Ashtead Technology Limited

Dartmouth, Canada

is granted acceptance for

Examination of mobile and long term mooring systems , in accordance with Class Programme DNV-CP-0632.

This service supplier certificate will be accepted for use with all rule sets published by DNV.
See the following page(s) for details regarding application.

This Certificate is valid from **2024-05-25** to (inclusive) **2027-05-24**.

This Certificate is issued on **2025-08-05**.

for **DNV**

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Liberato, Julio

This Certificate may be withdrawn if:

1. The service provided has been improperly carried out or the results improperly reported.
2. The surveyor has found any deficiencies in the accepted operating systems of the service supplier.
3. The firm has failed to inform of any major changes having effect on the quality of the service rendered.
4. The conditions listed in the certificate are changed and/or are not fulfilled.

LEGAL DISCLAIMER: Unless otherwise stated in the applicable contract with the holder of this document, or following from mandatory law, the liability of DNV AS, its parent companies and their subsidiaries as well as their officers, directors and employees ("DNV") arising from or in connection with the services rendered for the purpose of the issuance of this document or reliance thereon, whether in contract or in tort (including negligence), shall be limited to direct losses and under any circumstance be limited to USD 300 000.

Application:

The supplier is approved for providing in-water examination of mooring components, permanently installed in a long-term mooring system, according to DNV-CP-0632, Edition June 2022.

The approval covers the following mooring components and examination methods using remotely operated vehicle (ROV):

Mooring system component	Visual inspection ¹	Measurements ²	Remote inspection technique
Mooring chain	X ³	Chain link intergrip, sidebar diameter and link length	X ⁴
Fibre rope	X		X ⁴
Wire rope	X	Wire rope diameter	X ⁴
Anchors	X	Bullseye readings	X ⁴
Connectors	X		X ⁴

Notes:

1) The examination method covers general visual inspection (GVI), close visual inspection (CVI)

2) Measurements also include:

- chain angle
- trenches in proximity to pile anchors.

3) Examination of mooring chain also covers the use of sub-contacted resources to perform:

- rope access technicians for inspection between the water line to chain stopper
- mini-ROV or divers for inspection from the water surface to a typical depth of 20-30m.

4) Remote inspection techniques (RIT) include:

- subsea callipers
- chain measurement system (optical calliper)
- 3D modelling and photogrammetry.

5) Personnel working at the office located in Houston (US) are covered by the approval under the main office located in Halifax (Dartmouth).

Remarks:

1) Examination of long-term mooring systems may be applied for units with the additional notation **POSMOOR** performed according to the requirements and scope described in DNV-RU-OU-0300 (latest edition).

2) When performing examination of long-term mooring systems (service) on units classed with the Society, the supplier shall follow the work process and quality management system verified by the Society. Any deviations shall be communicated and agreed with the Society.

3) If the service is performed using ROV provided by a sub-contractor then the sub-contractor shall be approved as a supplier according to DNV-CP-0628 or DNV-CP-0632.

4) It is regarded as the obligation of the supplier to inform the Society of any planned examination activity and arrange for a planning meeting with the Society present.

Agents:

Name	City	Country
Ashtead Technology Ltd	Aberdeen	United Kingdom



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