CERTIFICATE NUMBER	25-0252507-PDA
EFFECTIVE DATE	15-Apr-2025
EXPIRY DATE	14-Apr-2030
ABS TECHNICAL OFFICE	Houston ESD - Offshore Equipment

CERTIFICATE OF

Product Design Assessment

This is to certify that a representative of this Bureau did, at the request of

YALE CORDAGE

located at

77 INDUSTRIAL PARK ROAD, , SACO, ME, United States, 04072

assess design plans and data for the below listed product. This assessment is a representation by the Bureau as to the degree of compliance the design exhibits with applicable sections of the Rules. This assessment does not waive unit certification or classification procedures required by ABS Rules for products to be installed in ABS classed vessels or facilities. This certificate, by itself, does not reflect that the product is Type Approved. The scope and limitations of this assessment are detailed on the pages attached to this certificate.

Product:	**Rope, Marine High Modulus Polyethylene (HMPE)**
Model:	**Yale Cordage LOUP**
Endorsements:	
Tier:	**3 - Type Approved, unit certification not required**

This Product Design Assessment (PDA) Certificate remains valid until 14/Apr/2030 or until the Rules and/or Standards used in the assessment are revised or until there is a design modification warranting design reassessment (whichever occurs first).

Acceptance of product is limited to the "Intended Service" details prescribed in the certificate and as per applicable Rules and Standards.

This Certificate is valid for installation of the listed product on ABS units which exist or are under contract for construction on or previous to the effective date of the ABS Rules and standards applied at the time of PDA issuance. Use of the Product for non-ABS units is subject to agreement between the manufacturer and intended client.

American Bureau Of Shipping

Mohamed C Boukamcha

Mohamed C Boukamcha,Engineer/Consultant

YALE CORDAGE
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Tier: 3 - Type Approved, unit certification not required

Product: **Rope, Marine High Modulus Polyethylene (HMPE)**
Model: **Yale Cordage LOUP**
Endorsements:

Intended Service:
Marine Application - Marine Construction and Heavy Lifting.

Description:
Ultra-High-Molecular-Weight Polyethylene (UHMWPE) sleeve and Polyester as an alternative.

Rating:
Maximum Temperature: 140 ºF (60 ºC)
Nominal Diameter: 0.39" (10mm) to 5.3" (134mm). For details see attached "pdf"

Service Restriction:
1. Unit Certification is not required for this product.
2. If the manufacturer or purchaser request an ABS Certificate for compliance with a specification or standard, the specification or standard, including inspection standards and tolerances, must be clearly defined.

Comments:
1. The Manufacturer has provided a declaration about the control of, or the lack of Asbestos in this product.
2. Additional review is required if used in chemically active environment in accordance with 9-7.8.2 of ASME B30.9.
3. Product testing is required if the external fibers have faded or embrittled during visual and tactile inspection.
4. Fitting shall have sufficient strength to sustain twice the rated load of the sling without permanent deformation in accordance with 9-7.2.2 of ASME B30.9.
5. For underwater applications, safety factors are to be not less than 7.0 for running rope and 5.0 for standing rope based on the design load of the system as compared to the minimum breaking strength of the product in accordance with Section 20/7.1.2 of Underwater Rules.

Notes/Drawing/Documentation:
Drawing No. Loup Data Sheet, Revision: -, Pages: 1
Drawing No. 7p-10, Rope Production Process, Revision: -, Pages: 1
Drawing No. L006, Rope Manufacturing Process, Revision: -, Pages: 1
Drawing No. 7P-05, Design and Development Control, Revision: -, Pages: 1
Drawing No. 7P-12, Process Control, Revision: -, Pages: 1
Drawing No. 4P-02, Records Control, Revision: -, Pages: 1
Drawing No. 4P-01, Document Control, Revision: -, Pages: 1
Drawing No. Yale 4A03 Loup Proof Load SN 1429358, Revision: -, Pages: 1
Drawing No. Yale 4A04 Loup Proof Load SN 1455788, Revision: -, Pages: 1
Drawing No. Yale 7A03 Loup Proof Load SN 1392059, Revision: -, Pages: 1
Drawing No. Yale 7A04 Loup Proof Load SN 1435487, Revision: -, Pages: 1
Drawing No. Yale Cordage 13N10300PL SN 1419650 KB 060118, Revision: -, Pages: 1
Drawing No. Yale Cordage, 180901090, Basic Proof Load,13A04X25 9LIBILWI001PL SN#1428229, Revision: -, Pages: 1
Drawing No. Yale Cordage, 180901104, Basic Proof Load, 19N08216PL SN#1428873 SIGNED, Revision: -, Pages: 1
Drawing No. Yale Cordage, 181001114, Basic Proof Load, 32N10X10FT SN1429417, Revision: -, Pages: 1
Drawing No. Yale Cordage, 181001119, Basic Proof Load, 13A05 X 11FT SN1429422, Revision: -, Pages: 1
Drawing No. Yale Cordage, 181101411, Basic Proof Load, 19N07120PL SN 1433111, Revision: -, Pages: 1
Drawing No. Yale Cordage, 190301873, Basic Proof Load, 13N0896PL SN 1441385, Revision: -, Pages: 1
Drawing No. Yale Cordage, 190502009, Basic Proof Load, 7A08240PL SN1451087, Revision: -, Pages: 1
Drawing No. Yale Cordage, 190602066, Basic Proof Load, 32N065120PL SN 1448952 SIGNED, Revision: -, Pages: 1

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Tier: 3 - Type Approved, unit certification not required

Drawing No. Yale Cordage, 190602163, Basic Proof Load, 7A0796PL SN 1450534 SIGNED 062719 LP, Revision: -, Pages: 1
Drawing No. Yale Cordage, 190802279, Basic Proof Load, 19N1096PL SN 1453565, Revision: -, Pages: 1
Drawing No. Yale Cordage, 190902418, Basic Proof Load, 13A06228PL SN 1457942 092519, Revision: -, Pages: 1
Drawing No. Yale Cordage, 7A06180PL SN1424225, Revision: -, Pages: 1

Terms of Validity:
This Product Design Assessment (PDA) Certificate remains valid until 14/Apr/2030 or until the Rules and/or Standards used in the assessment are revised or until there is a design modification warranting design reassessment (whichever occurs first).

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STANDARDS

ABS Rules:
2025 Rules for Conditions of Classification, Part 1A Marine Vessels Rules: 1A-1-4/7.7, 1A-1-A3, 1A-1-A4
2025 Rules for Building and Classing Underwater Vehicles, Systems and Hyperbaric Facilities: 20/7.1.2, 20/13, 20/51.1

National:
Cordage Institute Standard CI-1500
ASME B30.9, 2021

International:
NA

Government:
NA

EUMED:
NA

OTHERS:
NA