

# Recertification Services for Helicopter Longlines and HEC Ropes



## Recertification

Barry recommends that a formal inspection be made at least once a year by a competent person (other than the primary user(s) or person(s) who perform pre-use inspections, on all helicopter external load equipment.

Barry only offers inspection and recertification of longlines and HEC (Human External Cargo) systems manufactured by Barry, if recertification criteria are met. The recertification process covers all the textile components while metal components are only visually inspected for damages and deformation. The testing of electrical wire performance is not covered by the inspection process.

Break-tests for residual tensile strength on products submitted are performed by Barry and/or third-party test facility. If required, third-party testing and certification are available at an extra cost.

Cargo nets are not eligible for recertification, however cargo net repair kits are available from Barry and repair instructions are available from the Barry website (<https://www.barry.ca/cargonet>).

### Products submitted for recertification must meet the following criteria:

- Legible identification markings (date of manufacture, serial number, manufacturer identification, initial working load limit (WLL) rating or diameter).
- Within recommended product lifespan.

If available, this information should also be provided:

- Complete record of use and inspection documentation.

### Normative references:

- ASTM E-4 - 09 : Standard Practices for Force Verification of Testing Machines
- CGSB 40-GP-1M : Methods of Sampling and Testing Cordage
- CI 1401-06 : Safer Use of Fiber Rope
- CI 2001-04 : Fiber Rope Inspection and Retirement Criteria

#### Barry Cordage Ltd.

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## Recertification process:

### Client should:

- 1- Call Barry to discuss schedule and requirements and to obtain a return authorization number, by providing the longline serial number.
- 2- Provide payment to pre-authorize Level 2 recertification. Upon completion of the service, Barry will determine the appropriate service level fee (Level 1 or Level 2) and confirm shipment to the required destination. If only Level 1 service is required, Barry will advise client of the adjustments in the service fee.
- 3- Make sure that all documentation is available (logbook and up-to-date inspection sheet).
- 4- Ship prepaid to Barry with all required product identification and documentation.

### Barry will:

- 1- Complete a Preliminary Diagnostic (visual and tactile inspection) documented by notes and photographs (Part 1 of Longline Recertification Form).  
If a longline is deemed unfit for recertification, a minimum fee of \$100 will be charged.
- 2- **Level 1 :** If the longline passes the Preliminary Diagnostic **and** has been in service for less than 2 years **and** shows no signs of excessive wear and tear, a Level 1 inspection will be carried out as follows:
  - Complete inspection as per Part 2 of Longline Recertification Form.
  - Replace label and issue new Certificate of Compliance.
- 3- **Level 2 :** If the longline passes the Preliminary Diagnostic **and** has been in service for more than 2 years **or** shows signs of excessive wear and tear, a Level 2 inspection will be carried out as follows:
  - Complete inspection as per Parts 2 to 5 of Longline Recertification Form
  - Cut off an end section (cut length as per rope diameter): Splice the free end and perform a break test to reveal residual tensile strength.
  - Compare results versus rope and hardware in new condition. **If the rope has lost more than 50% of its initial tensile strength, the longline will be deemed unfit to remain in service.** In this case 50% of the Level 2 fee will be reimbursed or applicable towards the purchase of a new longline since the following operations will not be required.
  - Re-qualify WLL as per results and observations, with a 7:1 safety factor.
  - Re-splice the cut end of the longline. Replace damaged metal components, electrical wire, jackets and end-covers if required (at extra cost).
  - Replace label and issue new Certificate of Compliance.

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## Recertification Prices:

### Preliminary Diagnostic:

\$100 minimum recertification fee (non-refundable) for initial evaluation resulting in longline deemed unfit for recertification.

### Level 1:

Length	7/16"-1/2"	5/8"-3/4"	7/8" and over
Up to 75'	\$ 200.00	\$ 300.00	\$ 500.00
100' to 130'	\$ 250.00	\$ 350.00	\$ 550.00
150' or longer	\$ 300.00	\$ 400.00	\$ 600.00

### Level 2:

Length	7/16"-1/2"	5/8"-3/4"	7/8" and over
Up to 75'	\$ 400.00	\$ 525.00	\$ 800.00
100' to 130'	\$ 450.00	\$ 575.00	\$ 850.00
150' or longer	\$ 500.00	\$ 625.00	\$ 900.00

### Notes:

- Prices exclude any additional components (damaged metal components, electrical wire, jackets, end-covers, etc.), shipping and taxes, and are subject to change without prior notice.
- If a longline is deemed unfit for recertification, a non-refundable \$100 minimum fee will be charged for the preliminary diagnostic.
- 3/8" diameter (2450 lbs WLL) longlines cannot be recertified.
- Recertification process may take 2 to 6 weeks depending on line diameter and quantity.
- Longline length will be reduced after Level 2 recertification requiring break test, depending on rope diameter:

Rope Diameter	7/16"-1/2"	5/8"	3/4"	7/8"	1"	1-1/8"	1-1/2"
Length Reduction	20 ft	26 ft	27 ft	31 ft	34 ft	38 ft	48 ft

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