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**INDUSTRY STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

MH/T 1064.7-2017

**Safety code of power working with the helicopter. Part 7-Paying
off guide rope work
(English Translation)**

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Foreword

MH/T 1064 "Safety Regulations for Helicopter Electric Operation" is divided into the following seven parts.

- Part 1: General requirements;
- Part 2: Inspection operation;
- Part 3: Laser scanning operation;
- Part 4: Live work;
- Part 5: Electric water washing operation;
- Part 6: Hoisting and assembly tower operations;
- Part 7: Unfold the guide rope operation.

This part is part 7 of MH/T 1064.

This section was drafted in accordance with the rules given in GB/T 1.1-2009.

This part was proposed by the Transportation Department of the Civil Aviation Administration of China.

This part was approved by the Aircraft Airworthiness Certification Department of the Civil Aviation Administration of China.

This part is under the jurisdiction of the China Academy of Civil Aviation Science and Technology.

Drafting organizations of this section. The Second Research Institute of Civil Aviation Administration of China, State Grid General Aviation Co., Ltd.

1 Scope

This part of MH/T 1064 specifies the general requirements for the deployment of guide ropes using manned helicopters (hereinafter referred to as helicopters), on-site operation organization and implementation, emergency measures, environmental protection measures and safety requirements before and after the operation.

This section applies to manned helicopters equipped with special equipment to deploy guide ropes on overhead transmission lines.

2 Normative references

The following documents are indispensable for the application of this document. For dated reference documents, only the dated version applies to this article Pieces. For undated references, the latest version (including all amendments) applies to this document.

DL/T 875 Basic requirements for design and test of construction equipment for transmission lines
DL 5009.2 Safety Work Rules for Electric Power Construction Part 2: Overhead Power Lines
DL/T 5286 ± 800 kV overhead transmission line tension stringing construction technology guide
DL/T 5290 1 000 kV overhead transmission line tension wire construction technology guide

3 Terms and definitions

The following terms and definitions apply to this document.

Helicopter paying off guide rope work the use of helicopters to tow and unfold the guide ropes is used for the construction of overhead transmission lines under tension.

Drag rope

The rope that pulls the wires.

Guide rope

Pull the rope of the traction rope.

Note 1: The guide rope is composed of a set of ropes from small to large.

Note 2: The first unfolded (exposed by aircraft or manual laying) is called the initial guide, the last (the one that directly pulls the tow rope) is called the guide rope, and the remaining intermediate stages it is called two-lead and three-lead.

4.1.1 Staff composition

4.1.1.1

The operators of the guide rope of the helicopter deployment are divided into flight operators and construction operators.

4.1.1.2

The flight operator includes the operation team (pilot, co-pilot, on-board operators, operation controller, aircraft maintenance personnel, fuel Personnel), ground operations command, etc., if necessary, interpreters can be configured.

4.1.1.3

The construction operators include ground construction personnel, tower construction personnel, ground commanders, security personnel, etc.

4.1.2 Driver qualification

4.1.2.1

The captain performing the helicopter deployment guide rope operation shall meet the following requirements.

- Have experience in suspending helicopter external loads;
- Not less than 2 000 h for helicopters;
- Long time of operation model not less than 100 h;
- At least 100 hours of low-altitude flight experience, including electric power operation flight experience;
- Not less than 30 hours of professional flight training time for guiding ropes.

4.1.2.2

The co-pilot performing the pilot rope operation of the helicopter deployment shall meet the following requirements.

- Have experience in suspending helicopter external loads;

--Not less than 500 h low altitude flight experience, including electric power operation flight experience;

--Not less than 10 hours of professional flight training time for guiding ropes.

4.1.3 Qualifications of the person in charge of work (or safety guardian)

The person in charge (or safety guardian) who performs the guide rope operation of the helicopter exhibition shall meet the following requirements.

--Have more than 3 years of practical experience in the construction of overhead transmission lines under tension;

--Familiar with equipment conditions, with certain organizational skills and accident handling capabilities.

4.1.4 Division of Responsibilities

The flight operator is responsible for the safety of the work hook and above, and the construction operator is responsible for the safety of the work below the hook.

4.2 Equipment

4.2.1

When selecting a helicopter, its performance parameters, guiding rope parameters, and setting-off section conditions should be considered comprehensively, and after a technical and economic comparison determine.

4.2.2

The selection of the guide rope should comprehensively consider its unit weight, breaking force and other parameters, and should be based on the needs and the line crossing situation and the helicopter's allowable mounting capacity are determined, and the selection is made according to the requirements in DL/T 5286 and DL/T 5290.

4.2.3

The selection of supporting tools and instruments should match the guide rope specifications, construction task requirements, etc., and should pass inspections or tests to ensure their installation it is safe to use and meets the requirements of DL/T 875.

4.2.4

The maximum continuous pay-off speed of the tension machine should not exceed 250 m/min.

4.2.5

Helicopter take-off and landing field, tension field, and towing field should each be equipped