

ICS 03.220.50
CCS V 53

MH

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

MH/T 1064.6-2017

**Safety code of power working with the helicopter. Part
6-Hoisting and erecting tower operation
(English Translation)**

Issued on: January 2, 2017

Implemented on: April 1, 2017

Issued by: Civil Aviation Administration of China

Table of Contents

- Foreword
- 1 Scope
- 2 Terms and definitions
- 3 General requirements
 - 3.1 Personnel
 - 3.2 Equipment
 - 3.3 Operating environment and weather
 - 3.4 Personnel safety protection
 - 3.5 Personnel fatigue prevention measures
 - 3.6 Communication
- 4 Preparation before homework
 - 4.1 Preliminary preparation stage
 - 4.2 Direct preparation phase
- 5 Work implementation
 - 5.1 Flight Process of Hoisting Tower Assembly
 - 5.2 Emergency measures for aerial operations
 - 5.3 Special handling

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 6 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 use of manned helicopters (hereinafter referred to as helicopters) to hoist and build towers on overhead transmission lines the general requirements of the operation, organization and implementation, emergency measures and safety requirements before and after the operation.

This section applies to the use of manned helicopters equipped with special equipment to hoist and build towers on overhead transmission lines.

2 Terms and definitions

The following terms and definitions apply to this document.

Helicopter hoisting and erecting tower Use helicopter external towers (or tower sections) for assembly and installation of overhead transmission line towers.

Guide strip

A tool that can accurately slide the main material (or tower foot) of the tower (section) onto the connecting hole of the upper end (or top surface of the foundation) of the installed tower section.

Horizontal caging device the lower flat opening of the auxiliary lifting section is quickly aligned with the upper opening of the installed tower section, so that the main material of the hanging section enters the guide rail.

Note: It is installed at the lower flat opening of the hanging section and consists of a limit rope and a limit plate.

Vertical caging device the connecting hole between the lower end of the main material of the auxiliary lifting section and the Baotou steel can be accurately positioned.

Note: Installed on the upper flat main material of the hoisted section (or on the foundation of the iron tower).

Torsionproof device

Limit the twisting of the hanging parts and ensure that the hanging parts are aligned with the device of the installed tower section.

Note: This device is installed on the belly of the helicopter.

3.1.1 Staff composition

3.1.1.1

The operators of helicopter hoisting and tower assembly are divided into flight operators and construction operators.

3.1.1.2

The flight operator includes the operation team (pilot, co-pilot, on-board operators, aircraft maintenance personnel, operation controllers, fuel Interpreters), tower operators, ground commanders, tower commanders, etc., if necessary, can be equipped with interpreters. Co-pilot and on-board operators it can be performed by the same person according to the operating model or operating needs. If other helicopters are required to cooperate with the operation, the unit should be divided accordingly and clear responsibilities.

3.1.1.3

The construction operation party is composed of ground construction personnel, tower construction personnel, ground commanders, and tower commanders.

3.1.2 Driver qualification

3.1.2.1

The captain of the lifting and assembly tower 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 hoisting flight training time.

3.1.2.2

The co-pilot for hoisting and assembly of towers shall meet the following requirements.

- Have experience in suspending helicopter external loads;
- Not less than 150h low altitude flight experience time, including electric power operation

flight experience time;

--Not less than 10 hours of professional hoisting flight training time.

3.1.3 Division of Responsibilities

3.1.3.1

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 following parts of the work hook.

3.1.3.2

The ground commander of the flight operation party is responsible for directing the lifting of the helicopter in the group stockyard;

Wield the helicopter to seat the tower.

3.1.3.3

The ground commander of the construction operator is responsible for directing the ground construction personnel of the stockyard according to the instructions of the ground commander of the flight operator.

Operation. The construction operation azimuth tower commander controls the operation of the construction personnel on the tower according to the instructions of the flight operation azimuth tower commander.

3.2.1 Model selection

When selecting a model, it should be selected according to different lifting objects and working areas.

3.2.2.1 Basic requirements

3.2.2.1.1

The tools and equipment used in the operation should be inspected according to the regulations, and the force tools and equipment should be subjected to load test.

3.2.2.1.2

Before operation, check the operating mechanism and cables of the safety hook at the upper end of the helicopter sling and the working hook at the lower end.

Check and confirm that its performance is good.

3.2.2.1.3

The helicopter should be equipped with an anti-twist device to prevent the lifting gear from rotating in the air.