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ICS 33.070
CCS M37

YD

INDUSTRY STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

YD/T 4491-2023

Technical requirements for emergency communication aerial base stations based on tethered UAVs

基于系留无人机的应急通信空中基站技术要求

(English Translation)

Issued on: December 20, 2023 **Implemented on: April 1, 2024**

Issued by: Ministry of Industry and Information Technology

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https://chinastandards.org/standards/yd-t-4491-2023

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1 Foreword

YD/T 4491-2023 was issued by Ministry of Industry and Information Technology on 20 December 2023 and has been in force since 1 April 2024.

The YD/T prefix marks a recommended standard. It is not law in itself: it becomes binding when a contract names it, when a regulation or a mandatory standard refers to it, or when a producer declares conformity with it.

The document runs to 15 pages in English translation.

2 Scope Preview

This standard specifies the technical requirements for equipment using tethered UAVs combined with communication equipment to achieve emergency coverage. The main contents include: UAV platform requirements, TD-LTE base station equipment requirements, TD-LTE antenna requirements, LTE-FDD base stations Equipment requirements, LTE-FDD antenna requirements. This standard applies to LTE aerial base stations and drone platforms based on tethered drones, and other communication systems can also be used with reference.

YD/T 4491-2023 falls under ICS 33.070, in the field of telecommunications.

This catalogue holds 3,420 other YD/T standards in that field.

In this catalogue, YD/T standards carry edition years from 1982 to 2026.

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3 About this standard

Sector: Telecommunication Industry Standard (Recommended)

Issued by: Ministry of Industry and Information Technology

English translation: about 15 pages (approximate)

4 Related standards

Standards on related subjects:

YD/T 2576.1-2013 - Test method for user equipment of TD-LTE digital cellular mobile telecommunication network (Phase 1) - Part 1: Basic operation, services and reliability test

YD/T 2576.2-2013 - Test method for user equipment of TD-LTE digital cellular mobile telecommunication network (phase 1) - Part 2: Radio transmission and reception performance test

YD/T 2307-2011 - Technical requirement and testing methods for general function of mobile telecommunication terminal

YD/T 7130-2026 - Airborne communication - Technical requirements for cabin Wi-Fi subsystem

YD/T 4490-2023 - LTE digital cellular mobile communication network enhanced machine type communications (eMTC) terminal equipment test method (Phase 2)

YD/T 4486-2023 - 5G voice service core network equipment technical requirements and testing methods

5 Classification and status

International classification (ICS): 33.070

Chinese Standard Classification (CCS): M 37

Prefix YD/T: recommended standard.

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