



Air-to-ground emergency communication command base station

Who needs a ground station authorization?

Ground station authorizations are usually only issued to aviation service organizations located on airports, businesses engaged in pilot training, aircraft manufacturers, or persons engaged in chase activities related to soaring and ballooning.

What is an airport control tower station?

Airport control tower stations provide all necessary communications between an airport control tower and all arriving and departing aircraft. They are used to maintain an efficient flow of traffic for aircraft taxiing, landing, and takeoff and for all vehicle movement on the airfield.

Where can I get emergency ATC support?

This service can be obtained through the appropriate Civil/ICAO ATC communications agency such as the AREA CONTROL CENTER, SECTOR RADIO, or FLIGHT INFORMATION CENTER (see section B, ICAO HF Aeronautical Station List). Global HF stations will accept emergency ATC traffic and provide phone patch or message relay support as required.

What is a two-way emergency communication system?

The Command Center Two-Way Emergency Communication System is designed to provide efficient two-way, person-to-person voice communication for Area of Refuge, accommodating an impressive range of 1 to 116 Call Boxes. Utilizing a home run configuration with only one pair of wires needed between each Call Box and the head end.

Are cap radio systems prepared for contingency communications?

CAP's radio systems are well-prepared to provide contingency communications when commercial communications systems become unavailable or overloaded. CAP holds 15 national voice nets a week on multiple HF frequencies averaging close to 120 daily check-ins.

Can a ground radio be placed atop a building?

The zone/channel used in the ground radio remains the same whether the repeater is on Channel 1 or on Channel 7. This can be placed atop (e.g.) tall buildings or other elevated structures with access to power to temporarily service an area. An external antenna/mount would be required.

The digital airspace offers new opportunities in the sky, such as mission-critical mobile broadband solutions and high altitude communication for aircraft [4]. In the latter use case, ground base ...

The sixth generation (6G) of mobile communication networks aims to bring innovations in mobile broadband solutions and airborne communications. This paper proposes an antenna solution ...

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