

**Federal Communications Commission**

**§ 22.807**

**BASIC EXCHANGE TELEPHONE RADIO SYSTEMS**

**GENERAL AVIATION AIR-GROUND STATIONS**

**§ 22.757 Channels for basic exchange telephone radio systems.**

The channels listed in § 22.725 are also allocated for paired assignment to transmitters in basic exchange telephone radio systems.

[70 FR 19309, Apr. 13, 2005]

**§ 22.759 Power limit for BETRS.**

The effective radiated power of central office and rural subscriber station transmitters used in basic exchange telephone radio systems must not exceed the limits in this section.

(a) *Maximum ERP.* The effective radiated power (ERP) of central office and rural subscriber station transmitters in BETRS must not exceed the applicable limits in this paragraph under any circumstances.

Frequency range (MHz)	Maximum ERP (watts)
152-153 .....	1400
157-159 .....	150
454-455 .....	3500
459-460 .....	150

(b) *Height-power limit.* The ERP of central office stations in BETRS must not exceed the amount calculated as follows:

$$ERP_w = 557,418 \div h_m^2$$

where  $ERP_w$  is the effective radiated power in Watts

$h_m$  is the average (eight cardinal radial) antenna height above average terrain in meters

**Subpart G—Air-Ground Radiotelephone Service**

**§ 22.801 Scope.**

The rules in this subpart govern the licensing and operation of air-ground stations and systems. The licensing and operation of these stations and systems is also subject to rules elsewhere in this part and in part 1 of this chapter that generally apply to the Public Mobile Services. In case of conflict, however, the rules in this subpart govern.

[70 FR 19309, Apr. 13, 2005]

**§ 22.805 Channels for general aviation air-ground service.**

The following channels are allocated for the provision of radiotelephone service to airborne mobile subscribers in general aviation aircraft. These channels have a bandwidth of 20 kHz and are designated by their center frequencies in MegaHertz.

SIGNALLING CHANNEL PAIR	
Ground	Airborne mobile
454.675	459.675

  

COMMUNICATION CHANNEL PAIRS	
Ground	Airborne mobile
454.700	459.700
454.725	459.725
454.750	459.750
454.775	459.775
454.800	459.800
454.825	459.825
454.850	459.850
454.875	459.875
454.900	459.900
454.925	459.925
454.950	459.950
454.975	459.975

(a) Channel 454.675 MHz is assigned to each and every ground station, to be used only for automatically alerting airborne mobile stations of incoming calls.

(b) All airborne mobile channels are assigned for use by each and every airborne mobile station.

**§ 22.807 General aviation air-ground application requirements.**

In addition to the information required by subparts B and D of this part, FCC Form 601 applications for authorization to operate a general aviation air-ground station must contain the applicable supplementary information described in this section.

(a) *Administrative information.* The following information is required by FCC Form 601.

(1) The number of transmitter sites for which authorization is requested.

(2) The call sign(s) of other facilities in the same area that are ultimately controlled by the real party in interest to the application.