

SAFETY CAST.

Providing Safety Through Technology

April 18, 2003

Federal Communications Commission
Experimental Radio Service
P.O. Box 358320
Pittsburgh, PA 15251-5320

Dear Sir or Madam:

Please accept this letter, associated documents, and check as our application for a Special Temporary Authorization (STA) in accordance with Title 47, Chapter I, Part 5, Sec. 5.61 (Procedure for obtaining a Special Temporary Authorization). According to paragraph "c" of this section, "an application may be filed in letter form and shall contain the following information..."

For your convenience, the requested FCC information is restated below followed by our response as the Applicant.

1. Name, address, phone number (also email address and facsimile number...) of applicant;

Applicant Response:

Safety Cast Corporation
11265 Alumni Way, Suite 201
Jacksonville, FL 32246
904-998-7744 (FON)
904-998-1289 (FAX)
mark@safetycast.com

2. Description of why an STA is needed.

Applicant Response:

Safety Cast Corporation is prepared to field test an extremely low power, non-commercial, mobile transmitter that will broadcast "All Hazard" alerts, Amber Alerts, and/or emergency "alert" messages from authorized public entity vehicles (Police, Fire/Rescue, etc). Broadcast distance is designed to be less than 1050 feet.

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Currently unlicensed operation on the AM and FM radio broadcast bands is permitted for some extremely low powered devices covered under Part 15 of the FCC rules. On FM frequencies, these devices are limited to an effective service range of approximately 35 to 100 feet (11 to 30 meters).

See 47 CFR [Code of Federal Regulations] Section 15.239.

On the AM broadcast band, these devices are limited to an effective service range of approximately 200 feet (61 to 70 meters).

See 47 CFR Sections 15.207, 15.209, 15.219, and 15.221.

In order to fully comply with the current FCC Rules, we are filing this STA to field test (beta test) our non-commercial, emergency mobile transmitter in two geographic locations in Florida (Duval, and Miami/Dade Counties in Florida) for a period not to exceed six months.

3. Description of the operation to be conducted and its purpose.

Applicant Response:

Safety Cast is a non-commercial, "All Hazard", emergency alert, mobile transmitter that has been developed to meet the needs of the Partnership for Public Warning, Dept. of Homeland Security, FEMA, Amber Alert, as well as state and local authorities including: Police, Fire/Rescue, and Highway Patrols. The Jacksonville (FL) Sheriff's Office, Miami/Dade Police, and the Florida Highway Patrol have requested participation in further field development and beta testing.

During operation (which is normally under emergency situations only), an authorized emergency vehicle will, broadcast a short duration "alert" message, i.e. "Police emergency, please yield", or "Accident ahead, detour at the next exit". The alert message is received by FM radios, only within close proximity of the emergency situation, (a distance not to exceed 1050 feet).

Operation is similar to the non-commercial broadcasts currently allowed under Section 90.242 (Travelers Information Stations & Highway Advisory Radio [TIS/HAR]). The main differentiators are:

- Safety Cast transmitters are mobile (not stationary)
- Broadcasts are "incidental" and extremely short duration in nature. (Safety Cast transmissions are NOT continuous loop, informational messages like TIS/HAR).
- Transmission and "alert message" normally occurs during a "real-time" emergency situation.

4. Time and dates of proposed operation.

Applicant Response:

Stations will be available for incidental usage (5 second average length per emergency, "alert" message) 24 hrs. per day, 7 days per week.

5. Class(es) of station (fixed, mobile, fixed and mobile) and call sign of station (if applicable).

Applicant Response:

Class of stations:

- Mobile
- Non-commercial (Public Safety use only)
- No call sign required.

6. Description of the location(s) and, if applicable, geographical coordinates of the proposed operation.

Applicant Response:

Mobile transmitters will be placed in public entity vehicles (Police, Fire/Rescue, etc.) in Duval County Florida, and Miami/Dade

7. Equipment to be used, including the name of the manufacturer, model and number of units.

Applicant Response:

Equipment: Safety Cast Mobile Transmitter
Manufacturer: Safety Cast Corporation
Model: Interceptor, Voyager
Number Units: 25 Jacksonville Sheriff's Office (Duval County, FL)
25 Miami/Dade Police
29 Miami/Dade Transit

8. Frequency (ies) desired.

Applicant Response:

FM Broadcast Band, (100 channels) from 88.1 MHz through and including 107.9 MHz. According to FCC guidelines, +/- 75 KHz bandwidth per channel is designated and, 200 KHz of separation is maintained between channels.

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9. Maximum effective radiated power (ERP) or equivalent isotropically radiated power (EIRP).

Applicant Response:

80 mW per channel.

10. Emission designator (see Sec. 2.201 of this chapter) or describe emission (bandwidth, modulation, etc.).

Applicant Response:

Per Subpart C – Emissions Section 2.201

F 8 A

FM , Multi-channel, Audio

11. Overall height of antenna structure above the ground (if greater than 6 meters above the ground or an existing structure, see part 17 of this chapter concerning notification to the FAA).

Applicant Response:

Antenna will be mobile, i.e. mounted on an authorized public (emergency) vehicle. It will be less than one (1) meter above the roof-line. Exact height is expected to be significantly less (depending upon final field testing).

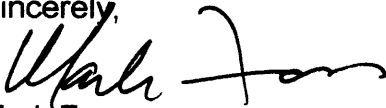
Section 5.56 ... of the Commission's rules outline the procedure for obtaining an STA. STA's require a fee of \$50.00. The applicant should mail the complete letter, FCC Form 159, and the fee to the FCC...

Applicant Response:

Our letter of application, FCC Forms 159 & 160, and our check for the \$50 fee is included in this packet.

Thank you for your assistance.

Sincerely,



Mark Foss

President & CEO

Safety Cast Corporation

cc: Governor Jeb Bush
Senator Bill Nelson
Congressman Ander Crenshaw

attachments