EMERGENCY COMMUNICATIONS COMMISSION RADIO SYSTEM

Policy 05-05

BOOSTER AND IN-BUILDING AMPLIFIER INSTALLATION AND USE

I. PURPOSE

It is the Emergency Communications Commission (ECC) policy to review and approve the design and implementation of any signal boosters, also referred to as bi-directional amplifiers (BDA) used to retransmit ECC licensed frequencies. As an FCC licensee, the ECC is subject to Federal regulations. The ECC and its agencies served are responsible for compliance with FCC regulation 47CFR90.219 “Use of Signal Boosters.” According to FCC regulation 47CFR90.219, anyone operating a signal booster to retransmit licensed frequencies must have the consent of the License holder. In addition, Part 90 Class B signal boosters (non-channelized BDAs) must be registered through the FCC Signal Booster Registration & Discovery website.

The Emergency Communications Commission reserves the right to verify that signal boosters have been properly engineered and do not create interference, by performing site surveys, inspections, and testing of signal booster installations. While the ECC encourages in-building signal enhancement, we must maintain the integrity of the radio system.

II. GUIDELINES

The FCC recognizes two basic classes of signal boosters. The FCC defines Class A signal boosters as a signal booster designed to retransmit signals on one or more specific channels (channelized BDA). Class A signal boosters can be used indoors, outdoors and in mobile settings.

The FCC defines Class B signal boosters as a signal booster designed to retransmit any signals within a wide frequency band (wideband BDA). Class B signal boosters may only be installed in a fixed location. Mobile use of Class B signal boosters is prohibited by the aforementioned FCC regulation. As of November 1, 2014, all existing and new Class B signal boosters must be registered with the FCC. The website for registering Class B signal boosters is:

www.fcc.gov/signal-boosters/registration

The FCC requires signal boosters to be used on a non-interference basis. As such, if a signal booster is suspected of causing harmful interference, the operator must turn off or adjust the settings of the device at the request of the Emergency Communication Commission, the FCC, or any impacted licensee to eliminate the harmful interference.
Any signal booster operator who does not comply with such as request, may be subjected to FCC fines as determined by FCC investigation.

Installation of a signal booster must conform to local zoning ordinances; local, State and Federal building codes; local, State and Federal fire codes; and any other applicable laws.

III. PROCEDURES

The following steps are required to properly obtain Emergency Communications Commission consent and meet FCC regulations for use of signal booster amplifying Emergency Communications Commission licensed frequencies.

A. Submit the Emergency Communications Commission Signal Booster Consent Request Form (ECC-F05), attached herein, to request Emergency Communications Commission consent to use the proposed signal booster.

B. The Emergency Communications Commission will review the submitted Emergency Communications Commission Signal Booster Consent Request Form (ECC F-05) and reserve the right to request additional information regarding the proposed signal booster.

C. Upon approval of the proposed signal booster, The Emergency Communications Commission shall supply a Letter of Consent allowing the use of the signal booster to amplify and retransmit frequencies licensed on the applicable provided call signs. This shall be maintained by the Emergency Communications Commission signal booster operator to be presented to an FCC representative or a relevant licensee investigating interference, per aforementioned FCC regulation. A copy of the letter and any data collected during the signal booster review will also be retained by the Emergency Communication Commission.

D. For Class B signal boosters, the requestor is required to comply with FCC regulation 47CFR90.219 by registering the approved device through the previously mentioned FCC signal booster registration website.

E. Upon successful registration, the requestor must provide the FCC Booster ID of this device to the Emergency Communications Commission as proof of registration. The Emergency Communications Commission will then document the FCC Booster ID with the previously obtained documentation.

IV. RESPONSIBLE PARTY:

ECC Radio System Manager, Bob Kurtz
1150 Hanna Road, Ballwin, MO 63021
rkurtz@stlouisco.com
314-615-9558
Adopted by the Emergency Communications Commission

By order of:

[Signature]
DAVID J.M. BARNEY
Director

MC:sp
E500

Approved at the regular Commission meeting of November 12, 2015.

[Signature]
WILLIAM G. KARABAS
Chairman
Signal Booster Consent Request Form
(ECC F-05)

Form completed by: ____________________________
Date completed: ____________________________
Email: ____________________________

Agency Contact Information
Agency/Company Name: ____________________________
Contact Name: ____________________________
Street Address: ____________________________
City: ____________________________ Zip Code: ____________________________
Phone Number: ____________________________
Email: ____________________________

Maintenance Contact Information
☐ Same as above
Maintenance Contact Agency/Company Name: ____________________________
Maintenance Contact Name: ____________________________
Maintenance Contact Address: ____________________________
Maintenance Contact City: ____________________________ Zip Code: ____________________________
Maintenance Contact Phone Number: ____________________________
Maintenance Contact Email: ____________________________
Signal Booster System Information

Signal Booster Make and Model: ________________________________

Signal Booster System Type: ☐ Channelized (Class A)  ☐ Un-Channelized (Class B)

Signal Booster Service Location Type:  ☐ Indoor  ☐ Outdoor

Signal Booster Frequency Band:

☐ 763-775 MHz / 793-805 MHz
☐ 806-817 MHz / 851-862 MHz

Signal Booster Donor Site (if known): _____________________________

Signal Booster RF ERP to Donor Site (watts): _______________________

Signal Booster Location Information

Signal Booster Location Address: _________________________________

Signal Booster Location City: ____________________________  Zip Code: ____________

And/or Signal Booster Location Coordinates

Latitude: ____________________________________________________

Longitude: _________________________________________________

Signal Booster Installation Location Description: __________________

___________________________________________________________

Signal Booster Coverage Area Description: ______________________

___________________________________________________________

Additional Information: _______________________________________

___________________________________________________________

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