

March 20, 2001  
Cumberland Electric Membership Cooperative  
Carl Wilson, Chief Executive Officer  
P. O. Box 3000  
Clarksville, TN 37043-3300

Dear Mr. Wilson:

The Federal Communications Commission has received complaints that equipment operated by your company is causing harmful radio interference to operators in the Amateur Radio Service. The complainant is:

[deleted]

The FCC has the responsibility to require that utility companies rectify such problems within a reasonable time if the interference is caused by faulty power utility equipment. Under FCC rules, most power-line and related equipment is classified as an "incidental radiator." This term is used to describe equipment that does not intentionally generate any radio-frequency energy, but that may create such energy as an incidental part of its intended operation.

To help you better understand your responsibilities under FCC rules, here are the most important rules relating to radio and television interference from incidental radiators:

**Title 47, CFR Section 15.5 General conditions of operation.**

(b) Operation of an intentional, unintentional, or incidental radiator is subject to the conditions that no harmful interference is caused and that interference must be accepted that may be caused by the operation of an authorized radio station, by another intentional or unintentional radiator, by industrial, scientific and medical (ISM) equipment, or by an incidental radiator.

(c) The operator of the radio frequency device shall be required to cease operating the device upon notification by a Commission representative that the device is causing harmful interference. Operation shall not resume until the condition causing the harmful interference has been corrected..

**Title 47, CFR Section 15.13 Incidental radiators:**

Manufacturers of these devices shall employ good engineering practices to minimize the risk of harmful interference.

**Title 47, CFR Section 15.15 General technical requirements.**

(c) Parties responsible for equipment compliance should note that the limits specified in this part will not prevent harmful interference under all circumstances. Since the operators of Part 15 devices are required to cease operation should harmful interference occur to authorized users of the radio frequency spectrum, the parties responsible for equipment compliance are encouraged to employ the minimum field strength necessary for communications, to provide greater attenuation of unwanted emissions than required by these regulations, and to advise the user as to how to resolve harmful interference problems (for example, see Sec. 15.105(b)).

In the present matter, the complainant has attempted unsuccessfully to work through your usual complaint resolution process and as a result the matter has been referred to our office. The FCC prefers that those responsible for the proper operation of power lines assume their responsibilities fairly. This means that your utility company should locate the source of interference caused by its equipment and make necessary corrections within a reasonable time.

While the FCC has confidence that most utility companies are able to resolve these issues voluntarily, the FCC wants to make your office aware that this unresolved problem may be a violation of FCC rules and could result in a monetary forfeiture for each occurrence. At this stage, the FCC encourages the parties to resolve this problem without FCC intervention; but if necessary to facilitate resolution, the FCC may investigate possible rules violations and address appropriate remedies.

The American Radio Relay League, a national organization of Amateur Radio operators, may be able to offer help and guidance about radio interference that involves Amateur Radio operators. You may wish to contact them at:

American Radio Relay League  
Radio Frequency Interference Desk  
225 Main Street  
Newington, CT 06111  
860-594-0200  
E Mail: [rfi@arrl.org](mailto:rfi@arrl.org)

Our office understands that the ARRL has been in contact with Mr. Bobby Gibbs, the CEMC Operations manager for Cumberland. Mr. Gibbs did make attempts to locate the interference but was unable to do so. His conclusion was that if Mr. Fulk or a representative from ARRL were to locate the cause of the interference, then Cumberland would correct the cause. FCC rules require, however, that the operator of the device that is radiating interference locate and correct the interference.

In the case of power lines, it is not possible for non-utility company people to safely perform all of the testing necessary to identify the source of the interference. If your company lacks the trained personnel necessary to troubleshoot and repair the

reported problems, you may wish to retain an outside consultant. ARRL can provide names of such consultants.

Please advise the complainant within 30 days of what steps your utility company is taking to correct this reported interference problem. The FCC expects that most cases can be resolved within 90 days of the time they are first reported to the utility company. If you are unable to resolve this within 90 days, please advise this office about the nature of the problem, the steps you are taking to resolve it and the estimated time in which those steps can be accomplished.

If you have any questions about this matter, please contact:

W. Riley Hollingsworth  
Special Counsel, Enforcement Bureau, FCC  
717-338-2502

Thank you for your cooperation.

Sincerely,  
Sharon Bowers, Deputy Chief  
Consumer Center  
Consumer Information Bureau