

From: James Whedbee

To: John Kennedy

Date: February 17, 2004

Subject:

FCC File # 0088-EX-ST-2004

Message:

Dear Mr. Kennedy:

Thank you for your efforts on behalf of my students and school. In further response to your e-mail, I wish to add that the frequencies selected are based on the most available equipment to my students: standard AM radio receivers. My student body consists of students, 80% or more of which receive free or reduced school lunches - in other words, very poor kids. I teach students in the fifth grade energy and electromagnetic radiation as part of my school's curriculum as well as run the school's radio club for grades 6-8. The frequencies, therefore, are crucial to the proposed experimentation in order for the broadest degree of student participation. Participating students will all be completely trained (already in progress, actually) in the requirements of Part 5 of the Commission's rules and regulations regarding station operation, identification, and expectations. The students participating in this project have been selected on the basis of academic grades, personal integrity, and good moral character.

The proposed transmitter power is using the lowest available power setting on the proposed transmitter. The unmodulated transmissions will use the ICOM transmitter in the CW modulation position, but in the key down position during twenty-seven and one-half minutes of operation. During the two and one-half minutes allocated for station identification, the transmitter modulation will be switched manually to the AM position with an electronically filtered microphone providing for voice input. Once identification is complete, the station will resume transmitting an unmodulated carrier. The antenna is a feed-point tuned free standing long-wire antenna. All transmission and tuning equipment are in an environmentally controlled area (i.e., temperature and moisture are regulated), and therefore, should be extremely stable. Harmonic and spurious emissions should also be no problem whatsoever, especially given the low power levels proposed.

Students will be participating in both qualitative and quantitative analyses of the propagation characteristics of the signals being transmitted. Therefore, it is necessary to transmit a continuous unmodulated carrier sufficient enough to dampen the background noise. Students are expected to complete daily reports and analyze signal propagation within the proposed period of service. The service expects to operate between the hours of 8:15 AM Central Time to 5:15 PM Central Time, but may occasionally extend up to one hour on either side of these proposed times during the more qualitative parts of the research project.

Sir, if there is anything else you require regarding this application or the proposed operations, please don't hesitate to contact me by e-mail or telephone. Again, I am genuinely grateful for your efforts regarding this application. To these ends, I am...

Very truly yours,