

FEDERAL COMMUNICATIONS COMMISSION

445 Twelfth Street, SW
Washington, DC 20554

MEDIA BUREAU
AUDIO DIVISION
APPLICATION STATUS: (202) 418-2730
HOME PAGE: www.fcc.gov/mb/audio/

PROCESSING ENGINEER: Ann Gallagher
TELEPHONE: (202) 418-2716
FACSIMILE: (202) 418-1411
MAIL STOP: 1800B3
E-MAIL: Ann.Gallagher@fcc.gov

June 24, 2010

Lawrence M. Miller
Schwartz, Woods & Miller
1233 20th Street NW Suite 610
Washington, DC 20036-7322

In re: Request for Experimental
Authority
Kotzebue Broadcasting, Inc.
KOTZ, Kotzebue, AK
Facility ID No.: 35440

Dear Counsel:

The staff has under consideration the request received on June 18, 2010, for experimental authority to permit KOTZ to operate with carrier amplitude controlled according to modulation density, a technique referred to as "dynamic carrier control"(DCC). The experimental authority is requested pursuant to 47 C.F.R. § 73.1510 for a period of one year.

The letter request states that KOTZ, a noncommercial educational station working with the Alaska Public Broadcasting Commission, proposes to test a variety of algorithms for controlling carrier power. The request notes that KOTZ, located north of the Arctic Circle on a peninsula in Kotzebue Sound, serves a sparsely populated area in which electric power is locally generated at high cost. KOTZ requests a waiver of 47 C.F.R. § 73.1560(a) to permit reduction of unmodulated carrier power to levels as low as 35 percent of nominal carrier power. This technique, commonly used in high-powered medium wave and shortwave radio transmitters throughout the world, may permit substantial savings in transmitter power. According to the request, "[t]he experiment will investigate whether the DCC technology causes 'carrier shift' and assess whether there is any degradation of audio quality, as well as measure power consumption." There will be no changes to KOTZ's authorized operation aside from variations in antenna input power, which will not exceed the licensed maximum.

Accordingly, the requested experimental authority described above IS HEREBY GRANTED. This authority is specifically conditioned on the lack of objectionable interference. A report detailing the methodology employed and the results obtained must be submitted within **ninety** days following the

conclusion of the experimental operation pursuant to 47 C.F.R. § 73.1510(d). This experimental authority expires on **June 24, 2011**. Any request for extension of this authority should be filed at least thirty days prior to this expiration date. **Additionally, such a request must include an interim version of the aforementioned report that details the progress of the experimental program as of the filing date.**

Sincerely,

A handwritten signature in blue ink that reads "Ann Gallagher". The signature is fluid and cursive, with the first name "Ann" and last name "Gallagher" clearly distinguishable.

Ann Gallagher
Audio Division
Media Bureau

Cc: Hatfield & Dawson