

**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/](http://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](mailto:Ann.Gallagher@fcc.gov)

June 29, 2011

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

In re: Request for Experimental  
Authority  
Bethel Broadcasting, Inc.  
KYUK, Bethel, Alaska  
Facility ID No.: 4963

Dear Counsel:

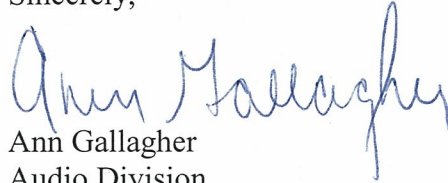
The staff has under consideration the request received on May 4, 2011, for experimental authority to permit KYUK to operate with carrier amplitude controlled according to modulation density, a technique referred to as "dynamic carrier control"(DCC). The experimental authority is requested pursuant to 47 C.F.R. § 73.1510 for a period of one year.

The letter request states that KYUK, a noncommercial educational station working with the Alaska Public Broadcasting Commission, proposes to test DCC in order to "measure power consumption and assess whether there is any degradation of audio quality." The request notes that KYUK, located 340 miles west of Anchorage and accessible only by air or river, serves a remote area in which electric power is very expensive. KYUK requests a waiver of 47 C.F.R. § 73.1560(a) to permit reduction in antenna input power, during periods of low modulation, to levels below the 90 percent threshold specified in the rule. This technique, commonly used in high-powered medium wave and shortwave radio transmitters throughout the world, may permit substantial savings in transmitter power. There will be no changes to KYUK'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 29, 2012**. 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, appearing to read "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