

FEDERAL COMMUNICATIONS COMMISSION
445 Twelfth Street, SW
Washington, DC 20554

ORIGINAL

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 27, 2006

T. Cleveland Callison
General Manager, WMUB
Williams Hall
Miami University
Oxford, OH 45056-2459

In re: Request for Extension and Modification
of Experimental Authority
The President and Trustees of
Miami University
WMUB, Oxford, OH
Facility ID No.: 66278

Dear Applicant:

On June 13, 2005, the staff issued WMUB experimental authority pursuant to 47 C.F.R. § 73.1510 to transmit a hybrid digital signal incorporating a second digital audio channel. The experimental authority expired on June 13, 2006. WMUB has requested extension of the experimental authority, and also modification thereof to allow operation with multiple digital channels in extended hybrid mode.

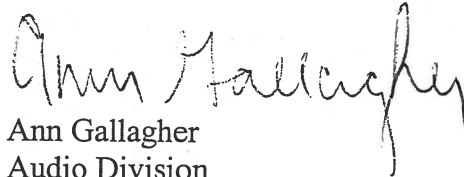
WMUB proposes to operate in extended hybrid mode in order to illustrate the potential of adding specialized public service programs. Extended hybrid operation includes modes MP2, MP3, MP4/MP11, in which the digital sidebands are extended toward the host station's analog carrier by an additional 12.5, 25, or 50 kHz, respectively.¹

Accordingly, the experimental authority granted to WMUB on June 13, 2005, IS HEREBY EXTENDED and now expires on **June 27, 2007**. WMUB's experimental authority IS ALSO MODIFIED to include multiple digital channels and extended hybrid digital operation in modes MP2, MP3, and MP4/MP11, as described above. This authority is specifically conditioned on the

¹ See Appendix B, *Digital Audio Broadcasting Systems and Their Impact on the Terrestrial Radio Broadcast Service*, 17 FCC Rcd 19990 (2002).

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). A comprehensive report of *Tomorrow Radio*SM test results may be submitted in lieu of reports by individual stations. 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 cursive script that reads "Ann Gallagher". The signature is written in dark ink and is positioned above the typed name and title.

Ann Gallagher
Audio Division
Media Bureau

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COPY

MEDIA BUREAU
OFFICE OF BROADCAST LICENSE POLICY
AUDIO DIVISION
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June 13, 2005

T. Cleveland Callison
WMUB
Williams Hall
Oxford, OH 45056-2459

In re: Request for Experimental
Authority
President and Trustees of Miami
University
WMUB, Oxford, OH
Facility ID No.: 66278

Dear Mr. Callison:

The staff has under consideration the request received on May 16, 2005, for experimental authority to transmit a hybrid digital signal incorporating a second digital audio channel. The experimental authority is requested pursuant to 47 C.F.R. § 73.1510 to allow testing a main and a secondary digital audio channel within the station's service area.

WMUB proposes to test a modified version of the hybrid IBOC system which the Commission has authorized for interim use.¹ The IBOC system under test, known as "*Tomorrow RadioSM*," splits the digital bitstream into two separate audio channels.

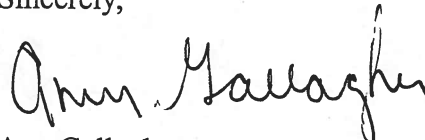
The test requires modification of the audio coder system to divide the digital audio stream into primary and secondary channels. The occupied bandwidth of the digital sidebands will remain as specified in Appendix B of the IBOC Order. The hybrid signal will be transmitted via the station's authorized antenna, and will not require a change in the station's authorized ERP.

Accordingly, the requested experimental authority for the hybrid digital operation 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

¹ Radio stations do not require experimental authority for normal hybrid IBOC operations. See *Digital Audio Broadcasting Systems and Their Impact on the Terrestrial Radio Broadcast Service*, 17 FCC Rcd 19990 (2002) ("IBOC Order").

C.F.R. § 73.1510(d). A comprehensive report of *Tomorrow Radio*SM test results may be submitted in lieu of reports by individual stations. This experimental authority expires on June 13, 2006. 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 black ink that reads "Ann Gallagher". The signature is written in a cursive style with a large, prominent initial "A".

Ann Gallagher
Audio Division
Office of Broadcast License Policy
Media Bureau