

**FEDERAL COMMUNICATIONS COMMISSION**  
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**Washington, DC 20554**

**MEDIA BUREAU**  
**AUDIO DIVISION**  
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September 23, 2011

Peter Tannenwald  
Fletcher, Heald & Hildreth, P.L.C.  
1300 North 17<sup>th</sup> Street 11<sup>th</sup> Floor  
Arlington, VA 22209-3801

In re: Request for Extension of  
Experimental Authority  
The American University  
WAMU(FM), Washington, DC  
Facility ID No.: 65399

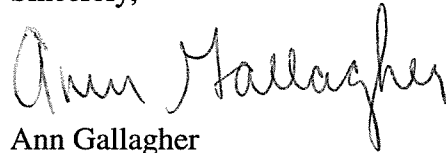
Dear Counsel:

The staff has under consideration the request received on March 11, 2011, for extension of experimental authority to permit WAMU to continue testing IBOC operation with asymmetrical power levels in the digital sidebands. The experimental authority is requested pursuant to 47 C.F.R. § 73.1510 for an additional six months.

The applicant's letter is accompanied by a report based on WAMU's experimental results to date. According to the report, WAMU, in cooperation with transmitter manufacturer Nautel, Ltd. and NPR Labs, has performed "compatibility testing and [a] field trial of an enhanced PAPR (Peak to Average Power Ratio Reduction) algorithm for HD Radio<sup>tm</sup> broadcasters, which can provide up to 30% more transmitter output power while simultaneously improving operating efficiency when utilizing the low-level combining mode. It also permits operation of the HD Radio sideband carriers from -20 dBc to -10 dBc, and supports asymmetrical sideband ratios." The applicant's letter request states that WAMU and the other parties wish to continue the tests to provide additional data on actual broadcast performance of the concept. WAMU proposes to continue operating with IBOC power up to -10 dB relative to the analog carrier power, and also with asymmetrical IBOC sideband power levels. An interference study included with the initial request indicates that only two stations are likely to be affected by WAMU's increase in digital sideband power: WKNZ, Ch 204B1, Kensington, DE (Facility ID No. 90270) and WHMM, Ch 202A, Spotsylvania, VA (Facility ID No. 172441). WHMM is not currently on the air. WAMU indicates that it has received no interference complaints during the first phase of experimental operation.

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 C.F.R. § 73.1510(d). This experimental authority expires on **September 23, 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 cursive script that reads "Ann Gallagher". The signature is written in dark ink and is positioned above the printed name and title.

Ann Gallagher  
Audio Division  
Media Bureau