

**FEDERAL COMMUNICATIONS COMMISSION**  
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May 18, 2018

Barry Persh, Esq.  
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1200 New Hampshire Avenue, NW #410  
Washington, DC 20036

Re: WUCF-FM, Orlando, Florida  
University of Central Florida  
Facility ID No. 69229  
File No. 20170501AAJ

**Request for Extension of Experimental  
Authority**

Dear Counsel:

This letter concerns the above-referenced April 28, 2018, request submitted by University of Central Florida (UCF), licensee of non-commercial educational FM Station WUCF-FM, Orlando, Florida,<sup>1</sup> seeking extension of its current experimental authority<sup>2</sup> permitting WUCF to conduct testing of hybrid digital FM in-band on-channel (IBOC) operation with asymmetric power levels in the digital sidebands. The experimental authority is requested pursuant to Section 5.203 of the Commission's Rules.<sup>3</sup>

UCF is seeking extension of its current experimental authority, which permits operation of WUCF with lower sideband (LSB) digital ERP of -14 dBc<sup>4</sup> and upper sideband (USB) digital ERP of -10 dBc, in order to continue operation and testing using this mode of digital transmission. In support of its extension request, as required, UCF submitted an interim report discussing the methodology and equipment employed and the progress and results of its testing pursuant to the current experimental authorization. In the report, UCF states that WUCF commenced asymmetric digital sideband power operation on May 15, 2017, and, since commencement, the authorized digital operation has been continuous. UCF also states that no complaints of interference resulting from the currently authorized experimental operation have been received.

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<sup>1</sup> File Number BMLD-20140515ADY. WUCF, Facility ID No. 69229, is licensed to operate on channel 210C3 (89.9 megahertz) using 0.36 kilowatts (kW) horizontally polarized (H) and 5.6 kw vertically polarized (V) effective radiated power (ERP), and 145 meters (H) and 148 meters (V) antenna radiation center height above average terrain, at a transmitter site described by geographic coordinates 28° 35' 26" North Latitude, 81° 12' 18" West Longitude, referenced to 1927 North American Datum.

<sup>2</sup> File No. 20170501AAJ.

<sup>3</sup> 47 CFR § 5.203 (Section 5.203).

<sup>4</sup> Decibels relative to analog carrier.

Our review of the request for extension of experimental authority shows that it meets the requirements for experimental operations set forth in Section 5.203, as well as the contour nonoverlap and other technical requirements of the Media Bureau's Order adopted January 27, 2010, in Mass Media Docket No. 99-325.<sup>5</sup> Accordingly, the extension request is **HEREBY GRANTED**. WUCF may continue to operate with digital ERP as follows:

Analog ERP:	0.36 kilowatts (kW)-H, 5.6 kW-V <sup>6</sup>
Digital LSB ERP: <sup>7</sup>	0.0140 kW-H, 0.225 kW-V
Digital USB ERP:	0.036 kW-H, 0.56 kW-V.

This experimental authority expires on **May 18, 2019**. 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 90 days following the conclusion of the experimental operation. Any request for extension of this experimental authority should be filed at least 30 days prior to the expiration date of the authority. Additionally, an extension request must include an interim version of the aforementioned report that details the progress of the experimental operation as of the filing date of the request.

Sincerely,



Rodolfo F. Bonacci  
Assistant Division Chief  
Audio Division  
Media Bureau

cc: Bruce Doerle, Chief Engineer (via email)

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<sup>5</sup> *Digital Audio Broadcasting Systems And Their Impact on the Terrestrial Radio Broadcast Service*, Order, 25 FCC Rcd 1182 (MB 2010).

<sup>6</sup> All ERP values rounded in accordance with 47 CFR § 73.212(a).

<sup>7</sup> Digital ERP values shown are for MP1 service mode. The licensee must adjust the station's asymmetric digital sideband ERP values in accordance with NRSC guideline "NRSC-G202, FM IBOC Total Digital Sideband Power for Various Configurations" (September 2010) if operating using a service mode other than MP1.