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December 22, 2021

**VIA EMAIL DELIVERY:** [Rodolfo.Bonacci@fcc.gov](mailto:Rodolfo.Bonacci@fcc.gov)

Mr. Rodolfo F. Bonacci  
Assistant Division Chief  
Audio Division, Media Bureau  
Federal Communications Commission

Re: Broadcast Station KQAC(FM), Portland, OR  
Facility ID No. 59343, FRN # 0005853098  
Request for Extension of Experimental Authority to Operate with  
Asymmetrical Hybrid Digital Sideband Power  
File No. 20171218AAC, extended by 20181206AAZ, 20191210AFI and 20201207AAJ

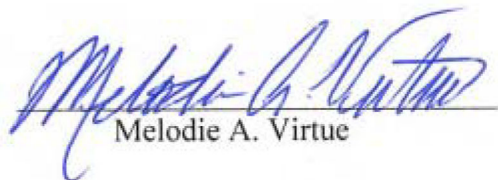
Dear Mr. Bonacci:

On behalf of All Classical Public Media, Inc., licensee of noncommercial educational FM radio station KQAC(FM), Portland, Oregon, pursuant to FCC Rule 5.203, this letter is written to request an extension of its experimental authority for one year to operate KQAC(FM) full-time with asymmetrical hybrid digital sideband power. The initial authorization was granted by letter dated January 9, 2018, from Susan N. Crawford in the Audio Division of the Media Bureau (“Initial Experimental Authorization”). The authorization was most recently extended by letter from Rodolfo F. Bonacci in the Audio Division of the Media Bureau (“Extension Letter”). A copy of the Initial Experimental Authorization and the Extension Letter are attached along with the report from KQAC(FM) Engineering Consultant, David J. Doherty, detailing the methodology employed and the results obtained.

Also enclosed is the Anti-Drug Abuse Certification of the licensee. No filing fee is required for this type of request.

Please direct any questions regarding this matter to the undersigned.

Respectfully submitted,



Melodie A. Virtue

MAV:c11  
Enclosures  
cc: James D. Bradshaw (pdf copy via email [James.Bradshaw@fcc.gov](mailto:James.Bradshaw@fcc.gov))



211 SE Caruthers Street, Suite 200  
Portland, OR 97214  
503-943-5828

Federal Communications Commission  
Office of the Secretary  
45 L Street, NE  
Washington, DC 20554

December 6, 2021

RE: Renewal of Experimental Request 20201207AAJ for KQAC, FCC Facility ID # 59343, Portland, OR.

Pursuant to Section 5.203 of Commission's Rules, this report is provided in support of a request to continue the captioned KQAC Experimental Authorization, which authorizes "hybrid" operation at a digital effective radiated power (ERP) of -12 dBc on the lower digital sideband and -14 dBc on the upper digital sideband.

The author of this report has served in various engineering support roles for about 3½ years, and has direct experience with the actual operations of the station during much of that period.

In 2019, KQAC operated extensively from its auxiliary site due to TV repack operations at the main transmitter site and replacement of the multi-station combiner. Therefore, we have extensive experience with digital hybrid operation at both sites.

KQAC has now amassed over 36,000 hours of operation in digital hybrid mode without a single complaint of interference to another station from either transmitter site.

All Classical Public Media, Inc. will continue to monitor KQAC to ensure that its operations remain within authorized parameters.

A handwritten signature in blue ink, appearing to read "David J. Doherty", written over a horizontal line.

David J Doherty  
Engineering Consultant  
dave@allclassical.org  
401-354-2400

**FEDERAL COMMUNICATIONS COMMISSION**  
**445 12<sup>th</sup> STREET, SW**  
**WASHINGTON, DC 20554**

**MEDIA BUREAU**  
**AUDIO DIVISION**  
**APPLICATION STATUS:** (202) 418-2730  
**HOME PAGE:** [www.fcc.gov/media/radio/audio-division](http://www.fcc.gov/media/radio/audio-division)

**PROCESSING ENGINEER:** Susan N. Crawford  
**TELEPHONE:** (202) 418-2754  
**GROUP FACSIMILE:** (202) 418-1411  
**INTERNET ADDRESS:** [Susan.Crawford@fcc.gov](mailto:Susan.Crawford@fcc.gov)

January 9, 2018

Melodie A. Virtue, Esq.  
Garvey Schubert Barer  
1000 Potomac Street, NW  
Suite 200  
Washington, DC 20007-3501

Re: KQAC(FM), Portland, Oregon  
All Classical Public Media, Inc.  
Facility ID No. 59343  
File No. 20171218AAC

**Request for Experimental Authority**

Dear Counsel:

The staff has under consideration the above-referenced December 18, 2017, request for experimental authority (Request) submitted on behalf of All Classical Public Media, Inc. (ACPMI), licensee of noncommercial educational FM Station KQAC(FM), Portland, Oregon,<sup>1</sup> to permit KQAC 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>2</sup>

The Request states that ACPMI is seeking experimental authority to operate KQAC with lower sideband (LSB) digital effective radiated power (ERP) of -12 dBc<sup>3</sup> and upper sideband (USB) digital ERP of -14 dBc. ACPMI submitted an engineering study in support of the Request.

Our review of the Request indicates that the proposed KQAC experimental operation complies with 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>4</sup> and the Request meets the

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<sup>1</sup> File Number BLED-20110517AEK.

<sup>2</sup> 47 CFR § 5.203 (Section 5.203).

<sup>3</sup> Decibels relative to analog carrier.

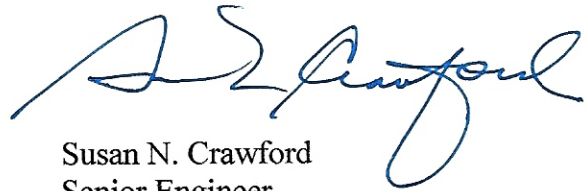
<sup>4</sup> See *Digital Audio Broadcasting Systems And Their Impact on the Terrestrial Radio Broadcast Service*, Order, 25 FCC Rcd 1182 (MB 2010).

requirements for experimental operations set forth in Section 5.203. Accordingly, the Request is **HEREBY GRANTED**. KQAC may operate with digital ERP as follows:

Analog ERP:	5.9 kilowatts (kW), Max-BT, H&V <sup>5</sup>
LSB Digital ERP: <sup>6</sup>	0.185 kW
USB Digital ERP:	0.120 kW.

This experimental authority expires on **January 9, 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,



Susan N. Crawford  
Senior Engineer  
Audio Division  
Media Bureau

cc: All Classical Public Media, Inc.  
Gray Frierson Haertig (via email)

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<sup>5</sup> All ERP values rounded in accordance with 47 CFR § 73.212(a).

<sup>6</sup> Digital ERP values shown are for MP1 service mode. The licensee must adjust the station's asymmetric total digital sideband ERP values in accordance with NRSC guideline "NRSC-G202-A, FM IBOC Total Digital Sideband Power for Various Configurations" (April 2016) if operating using a service mode other than MP1.



**Federal Communications Commission**  
**Washington, D.C. 20554**  
January 13, 2021

**MEDIA BUREAU**  
**AUDIO DIVISION**  
**APPLICATION STATUS:** (202) 418-2730  
**HOME PAGE:** [www.fcc.gov/media/radio/audio-division](http://www.fcc.gov/media/radio/audio-division)

**PROCESSING ENGINEER:** Priscilla M. Lee  
**TELEPHONE:** (202) 418-2957  
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Melodie A. Virtue, Esq.  
Garvey Schubert Barer  
1000 Potomac Street, NW  
Suite 200  
Washington, DC 20007-3501

Re: KQAC(FM), Portland, Oregon  
All Classical Public Media, Inc.  
Facility ID No. 59343  
File No. 20201207AAJ

**Request for Extension of Experimental  
Authority**

Dear Counsel:

The staff has under consideration the above-referenced December 7, 2020 request for extension of experimental authority (Request)<sup>1</sup> submitted on behalf of All Classical Public Media, Inc. (ACPMI), licensee of noncommercial educational FM Station KQAC(FM), Portland, Oregon,<sup>2</sup> to permit KQAC to continue to conduct testing of hybrid digital FM in-band on-channel (IBOC) operation with asymmetric power levels in the digital sidebands. The extension of experimental authority is requested pursuant to Section 5.203 of the Commission's Rules.<sup>3</sup>

The Request states that ACPMI is seeking experimental authority to continue to operate KQAC with lower sideband (LSB) digital effective radiated power (ERP) of -12 dBc<sup>4</sup> (0.185 kW) and upper sideband (USB) digital ERP of -14 dBc (0.12 kW).<sup>5</sup> In support of the extension request, as required, ACPMI reports that KQAC has amassed over 28,000 hours of operation in digital hybrid mode and there have been no complaint of interference from any party.

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<sup>1</sup> File Number 20171218AAC (granted 1/9/2018), as extended by File No. 20181206AAZ and 20191210AFI.

<sup>2</sup> File Number BLED-20110517AEK.

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

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

<sup>5</sup> Analog ERP is 5.9 kilowatts ("kW"), H&V

ACPMI's request for extension of experimental authority for KQAC meets the requirements for experimental operations set forth in Section 5.203. Accordingly, the extension request is **HEREBY GRANTED**. This experimental authority expires on **January 9, 2022**. 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 report detailing 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: All Classical Public Media, Inc.

