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Please reply to MELODIE A. VIRTUE  
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December 18, 2017

OUR FILE NO. 21616-00100-65

**By Hand Delivery**

Marlene H. Dortch, Secretary  
 Federal Communications Commission  
 Office of the Secretary  
 445 12<sup>th</sup> Street, S.W.  
 Room TW-A325  
 Washington, DC 20554

**ACCEPTED/FILED**  
**DEC 18 2017**  
 Federal Communications Commission  
 Office of the Secretary

2017 DEC 19 PM 3:11

Re: Broadcast Station KQAC(FM-NCE), Portland, OR  
 Facility ID No. 59343  
 FRN # 0005853098  
 Request for Experimental Authority to Operate with  
 Asymmetrical Hybrid Digital Sideband Power

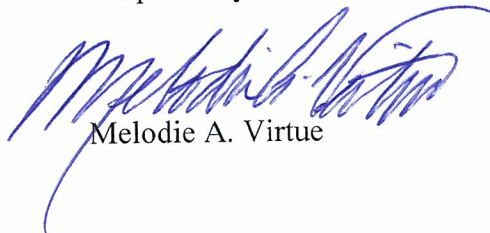
Dear Ms. Dortch:

On behalf of All Classical Public Media, Inc., licensee of non-commercial educational FM radio station KQAC(FM), Portland, Oregon, pursuant to FCC Rule 5.203, this letter is written to request experimental authority for one year to operate KQAC full-time with asymmetrical hybrid digital sideband power as set forth in the attached Engineering Statement of Gray Frierson Haertig & Assoc.

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

ANTI -DRUG ABUSE CERTIFICATION

The applicant certifies that, in the case of an individual applicant, he or she is not subject to a denial of federal benefits pursuant to Section 5301 of the Anti-Drug Abuse Act of 1988, 21 U.S.C. §862a, or, in the case of a non-individual applicant (e.g. corporation, partnership or other unincorporated association), no party to the application is subject to a denial of federal benefits pursuant to that section. For the definition of a "party" for these purposes, see 47 C.F.R. §1.2002(b).

Yes                       No

Name of Applicant: ALL CLASSICAL PUBLIC MEDIA, INC.

Signature: 

Title: TREASURER

Date: 12/14/2017

TELECOMMUNICATIONS ENGINEERING  
GRAY FRIERSON HAERTIG & ASSOC.  
4646 S.W. COUNCIL CREST DRIVE  
PORTLAND, OREGON 97239  
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503-807-2989 (Cell)

ELECTRONIC MAIL  
gfh@haertig.com

16 December 2017

Prepared for All Classical Public Media

**ENGINEERING STATEMENT  
KQAC-FM CHANNEL 210, PORTLAND, OREGON  
REQUEST FOR EXPERIMENTAL AUTHORIZATION  
TO OPERATE WITH ASYMMETRIC DIGITAL SIDEBAND POWERS**

This Engineering Statement has been prepared on behalf of All Classical Public Media, Inc. ("KQAC"), licensee of KQAC, Channel 210C1, at Portland, Oregon, in support of a request for experimental authorization to operate KQAC with asymmetric digital sideband power levels.

KQAC requests permission to operate at -12 dBc in the lower sideband and -14 dBc in the upper sideband. Since KQAC is not a grandfathered superpower station, operation at -14 dBc in the upper sideband is permitted by right.

The KQAC FM ERP is 5.9 KW. KQAC proposes to operate with 0.37 KW in the lower digital sideband and 0.235 KW in the upper digital sideband.

On 7 December 2017, his office undertook a computer allocation study of the licensed facilities of KQAC using data from the Commission's CDBS, current as of 6 December 2017 with particular consideration of assignments, allocations and applications for facilities operating on Channels 209 and 211. This study revealed that the most restrictive first-channel adjacent station above is KHRV, 211A, Hood River, Oregon, and

the most restrictive first-channel adjacent station below is KLCC, 209C0, Eugene, Oregon.

Attached is a map exhibit showing the extent and relationship of the KLCC and KHRV 60 dB $\mu$  protected contours and the proposed 50.6 dB $\mu$  and 54 dB $\mu$  interfering contours. This map demonstrates conclusively that there is no overlap between the proposed interfering contours and the KLCC and KHRV protected contours.

These contours were calculated using the method set forth in 47CFR73.313 of the Commission's Rules and Regulations. The average terrain values were calculated from elevations taken from the 30 arc-second NGDC database.

Per the Table in Paragraph 20 of R&O DA 10-208 in MM Docket 99-325, operation at -12 dBc in the lower digital sideband and -14 dBc in the upper sideband is permitted.

I, Gray Frierson Haertig, hereby affirm that:

I have been retained by All Classical Public Media, Inc., to prepare this Engineering Statement;

I am Principal and Senior Engineer of Gray Frierson Haertig & Assoc., a firm specializing in Broadcast Engineering;

This report has been prepared directly by myself;

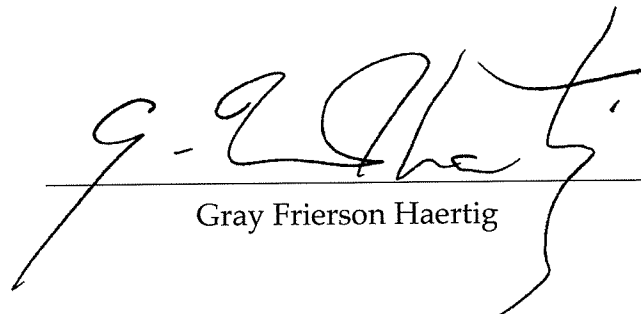
All statements made herein and not attributed to others are true to the best of my knowledge;

The conclusions drawn herein are based on information supplied to me by The Federal Communications Commission;

I am a Broadcast Engineer of 51 years experience;

And my credentials are a matter of record with the Commission.

Respectfully submitted this 16<sup>th</sup> day of December 2017,

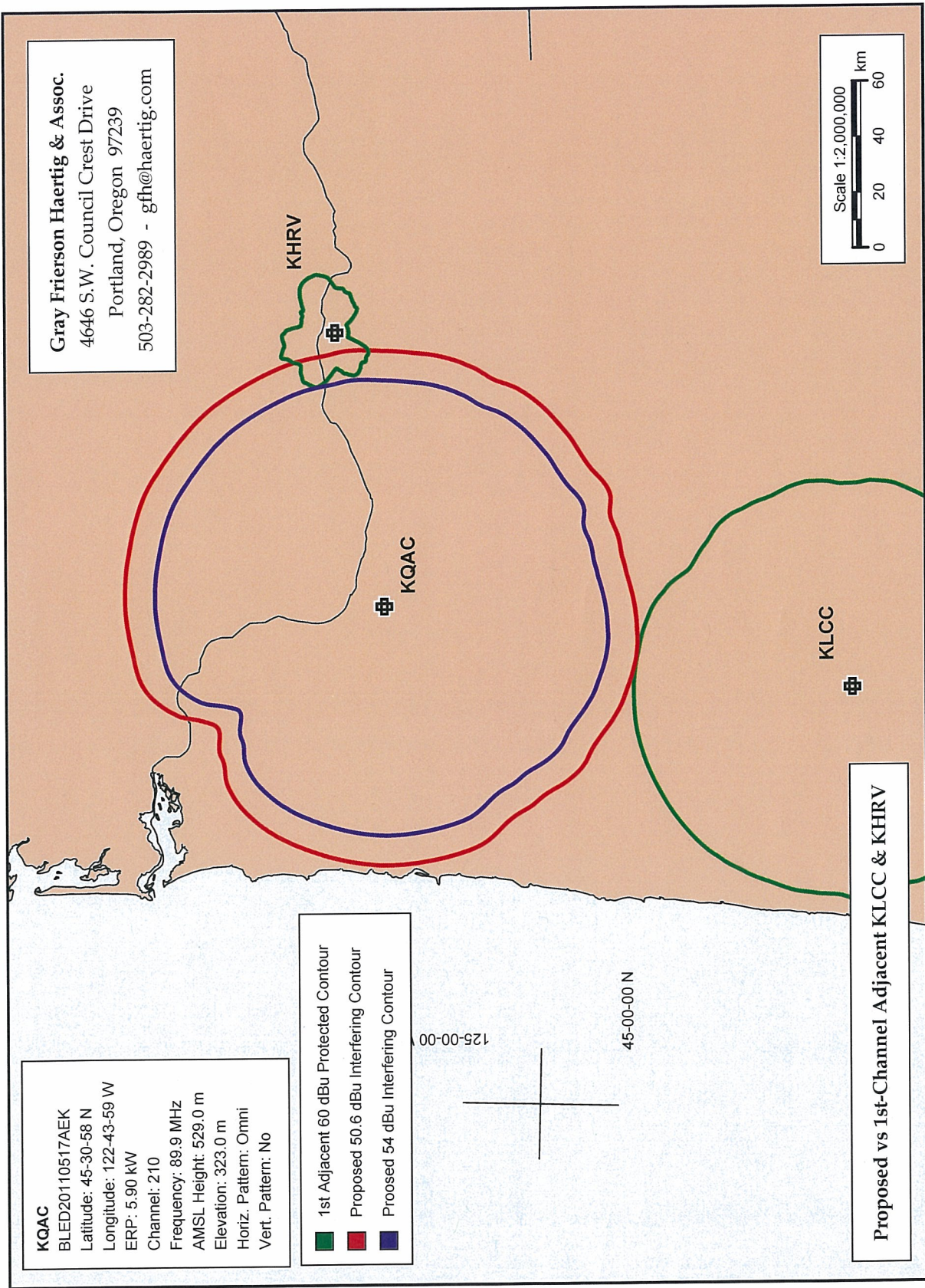
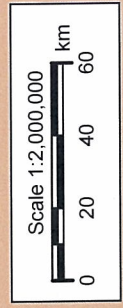
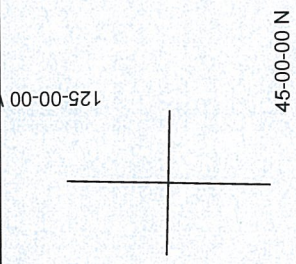


Gray Frierson Haertig

**Gray Frierson Haertig & Assoc.**  
 4646 S.W. Council Crest Drive  
 Portland, Oregon 97239  
 503-282-2989 - gfh@haertig.com

**KQAC**  
 BLED20110517AEK  
 Latitude: 45-30-58 N  
 Longitude: 122-43-59 W  
 ERP: 5.90 kW  
 Channel: 210  
 Frequency: 89.9 MHz  
 AMSL Height: 529.0 m  
 Elevation: 323.0 m  
 Horiz. Pattern: Omni  
 Vert. Pattern: No

- 1st Adjacent 60 dBu Protected Contour
- Proposed 50.6 dBu Interfering Contour
- Proposed 54 dBu Interfering Contour



**Proposed vs 1st-Channel Adjacent KLCC & KHRV**