

FEDERAL COMMUNICATIONS COMMISSION
445 12th STREET, SW
WASHINGTON, DC 20554

AUG 09 2019

MEDIA BUREAU
AUDIO DIVISION
APPLICATION STATUS: (202) 418-2730
HOME PAGE: www.fcc.gov/media/audio/

PROCESSING ENGINEER: Priscilla M. Lee
TELEPHONE: (202) 418-2957
MAIL STOP: 1800B3-PML
INTERNET ADDRESS: Priscilla.Lee@fcc.gov

Educational Media Foundation
5700 W. Oak Road
Rocklin, CA 95765

Re: KLVB(FM), Citrus Heights, CA
Facility ID No. 70676
Educational Media Foundation
File No. 20190530AAX

Request for Experimental Authority

Dear Licensee:

This is in reference to the request filed on May 30, 2019 on behalf of the Educational Media Foundation (“EMF”), licensee of noncommercial educational FM station KLVB(FM), Citrus Heights, California.¹ EMF requests experimental authorization pursuant to Section 5.203 of the Commission’s Rules² to permit KLVB to conduct testing of hybrid digital FM in-band on-channel (IBOC) operation with asymmetric power levels in the digital sidebands.

In support of the request, EMF indicates that the intent of the request is to improve the poor digital signal reception due to terrain within the 60 dBu contour. Increasing the upper sideband (USB) carrier to 10 dB below the analog carrier while leaving the lower sideband (LSB) carrier at -14 dBc³ should alleviate the reception problem. EMF further states that it meets the contour nonoverlap requirements of the Media Bureau’s Order adopted January 27, 2010, in MM Docket No. 99-325 (“Order”)⁴ for operation with digital ERP of -10 dBc on the USB. As such, EMF requests experimental authority for operation with LSB digital effective radiated power (ERP) of -14 dBc and USB digital ERP of -10 dBc.

¹ File No. BLED-20151119AYW. KLVB(FM) is licensed for analog operation on Channel 258A (99.5 megahertz) with 3.3 kilowatts (kW) effective radiated power (ERP) and 137 meters antenna radiation center height above average terrain (HAAT) using a non-directional antenna.

² 47 CFR § 5.203 (Section 5.203).

³ Decibels relative to analog carrier.

⁴ *Digital Audio Broadcasting Systems And Their Impact on the Terrestrial Radio Broadcast Service*, MM Docket No. 99-325, Order, 25 FCC Rcd 1182 (MB 2010) (Order).

Our review indicates that the proposed KLVB digital operation complies with the contour nonoverlap and other technical requirements of the *Order*⁵, and the request for experimental authority meets the requirements for experimental operations set forth in Section 5.203 of the Commission's Rules. Accordingly, the request is **HEREBY GRANTED**. KLVB may operate with increased digital ERP as follows:

Analog ERP:	3.3 kilowatts (kW) ⁶
Digital LSB ERP: ⁷	0.066 kW
Digital USB ERP:	0.165 kW

This experimental authority expires on **August 9, 2020**. 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 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: James Travis, Compliance Engineer (via email)
Mary O'Connor, Esq., Wilkinson Baker Knauer, LLP (via email)

⁵ *Digital Audio Broadcasting Systems And Their Impact on the Terrestrial Radio Broadcast Service*, MM Docket No. 99-325, Order, 25 FCC Rcd 1182 (MB 2010) (Order).

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

⁷ 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-A, FM IBOC Total Digital Sideband Power for Various Configurations" (April 2016) if operating using a service mode other than MP1.