



**United States of America**  
**FEDERAL COMMUNICATIONS COMMISSION**  
**FM BROADCAST STATION LICENSE**  
**AUXILIARY ANTENNA**

Authorizing Official:

Official Mailing Address:

EDUCATIONAL MEDIA FOUNDATION  
5700 WEST OAKS BLVD.  
ROCKLIN CA 95765

Rodolfo F. Bonacci  
Assistant Chief  
Audio Division  
Media Bureau

Facility Id: 41861

Call Sign: KLSW

License File Number: BXMLED-20160815ABG

Grant Date: September 19, 2016

This license expires 3:00 a.m.  
local time, February 01, 2022.

This License modifies License File number: BMLED-20150303AAL

Subject to the provisions of the Communications Act of 1934, subsequent acts and treaties, and all regulations heretofore or hereafter made by this Commission, and further subject to the conditions set forth in this license, the licensee is hereby authorized to use and operate the radio transmitting apparatus herein described.

This license is issued on the licensee's representation that the statements contained in licensee's application are true and that the undertakings therein contained so far as they are consistent herewith, will be carried out in good faith. The licensee shall, during the term of this license, render such broadcasting service as will serve the public interest, convenience, or necessity to the full extent of the privileges herein conferred.

This license shall not vest in the licensee any right to operate the station nor any right in the use of the frequency designated in the license beyond the term hereof, nor in any other manner than authorized herein. Neither the license nor the right granted hereunder shall be assigned or otherwise transferred in violation of the Communications Act of 1934. This license is subject to the right of use or control by the Government of the United States conferred by Section 606 of the Communications Act of 1934.

Name of Licensee: EDUCATIONAL MEDIA FOUNDATION

Station Location: WA-COVINGTON

Frequency (MHz): 104.5

Channel: 283

Class: C2

Hours of Operation: Unlimited -- For auxiliary purposes only

Transmitter: Type Accepted. See Sections 73.1660, 73.1665 and 73.1670 of the Commission's Rules.

Transmitter output power: 1.70 kW

Antenna type: Directional

Description: SHI 6014-6/2-DA, six sections 1.06 wavelength spaced

Antenna Coordinates: North Latitude: 47 deg 32 min 35 sec

West Longitude: 122 deg 06 min 25 sec

	Horizontally Polarized Antenna	Vertically Polarized Antenna
Effective radiated power in the Horizontal Plane (kW):	7.1	7.1
Height of radiation center above ground (Meters):	80	80
Height of radiation center above mean sea level (Meters):	514	514
Height of radiation center above average terrain (Meters):	388	388

Antenna structure registration number: 1056824

Overall height of antenna structure above ground (including obstruction lighting if any) see the registration for this antenna structure.

Special operating conditions or restrictions:

- 1 The relative field strength of neither the measured horizontally nor vertically polarized radiation component shall exceed at any azimuth the value indicated on the composite radiation pattern authorized by construction permit BMPH-20090929ALM.

A relative field strength of 1.0 on the composite radiation pattern herein authorized corresponds to the following effective radiated power:

7.1 kilowatts.

Principal minima and their associated field strength limits:

80 - 110 degrees True: 0.440 kilowatts

Special operating conditions or restrictions:

- 2 Waiver of 47 C.F.R. Section 73.1125 was previously granted to allow operation of this facility as a satellite operation of the following station:  
  
KLVR(FM), Facility ID #18801, Middletown, CA, Educational Media Foundation
- 3 The licensee has demonstrated compliance with the FCC radiofrequency electromagnetic field exposure guidelines based upon the usage of the antenna specified herein. If the licensee makes any changes in facilities via modification of license application in accordance with 47 CFR section 73.1690(c), the subsequent Form 302-FM, application for license, must include a revised RF field showing to demonstrate continued compliance with the FCC guidelines.
- 4 The permittee/licensee in coordination with other users of the site must reduce power or cease operation as necessary to protect persons having access to the site, tower or antenna from radiofrequency electromagnetic fields in excess of FCC guidelines.

\*\*\* END OF AUTHORIZATION \*\*\*