



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

Authorizing Official:

Official Mailing Address:

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EDUCATIONAL MEDIA FOUNDATION  
5700 WEST OAKS BOULEVARD  
ROCKLIN CA 95765

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Dale E. Bickel  
Senior Engineer  
Audio Division  
Media Bureau

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Facility Id: 164206

Call Sign: KLUU

License File Number: BXLED-20180220AAZ

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Grant Date: February 26, 2018

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

This license covers auxiliary facility permit no.: BXPED-20160205AEZ

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: HI-WAHIAWA

Frequency (MHz): 103.5

Channel: 278

Class: C

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: 6.7 kW

Antenna type: Directional

Description: SHI 6014-7/1-DA

Antenna Coordinates: North Latitude: 21 deg 23 min 52 sec

West Longitude: 158 deg 06 min 01 sec

	Horizontally Polarized Antenna	Vertically Polarized Antenna
Effective radiated power in the Horizontal Plane (kW):	85	85
Height of radiation center above ground (Meters):	20	20
Height of radiation center above mean sea level (Meters):	709	709
Height of radiation center above average terrain (Meters):	566	566

Antenna structure registration number: Not Required

Overall height of antenna structure above ground: 38 Meters

Obstruction marking and lighting specifications for antenna structure:

It is to be expressly understood that the issuance of these specifications is in no way to be considered as precluding additional or modified marking or lighting as may hereafter be required under the provisions of Section 303(q) of the Communications Act of 1934, as amended.

None Required

Special operating conditions or restrictions:

- 1 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.

## Special operating conditions or restrictions:

- 2 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 BXPED-20160205AEZ.

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

85 kilowatts.

Principal minima and their associated field strength limits:

180 degrees through 350 degrees True: 2.70 kilowatts

- 3 The authority granted herein is subject to the condition that the field strength produced by the permitted/licensed facility shall not exceed 27 mV/m as measured at the Federal Communications Commission's Waipahu, Hawaii. In the event that this limitation is exceeded or if interference occurs to the monitoring, direction finding, or related operations of the Federal Communications Commission's Waipahu, Hawaii monitoring station, the permittee/licensee shall take such immediate corrective action as is necessary to eliminate the interference. This shall include responsibility for furnishing, installing and adjusting transmitter filter circuits, shielding, or other corrective devices. If these measures fail to eliminate interference to FCC operations caused by the presence of the permittee/licensee's signal, or if the field intensity exceeds 27 mV/m, the permittee/licensee shall immediately reduce power to the extent necessary to eliminate the interference and/or comply with field strength limit. After determining this lower power level, the permittee/licensee shall immediately apply for a Special Temporary Authority (STA) and shall file an application to the Commission for the altered parameters.

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