

# Federal Communications Commission

## FM BROADCAST STATION CONSTRUCTION PERMIT

**Permittee**

EDUCATIONAL MEDIA  
FOUNDATION  
5700 WEST OAKS BLVD  
ROCKLIN, CA, 95765

<b>Call Sign</b>	<b>Facility ID</b>
KAWF	89071

<b>File Number</b> 0000238446	<b>This Permit Modifies License File No.</b> BMLED-20050518AAE	
<b>Filing Date</b> 02/06/2024	<b>Grant Date</b> 02/29/2024	<b>Expiration Date</b> 36 months after the grant date

<b>Community of License</b> City: SELMA State: CA	<b>Frequency (MHz)</b> 88.5	<b>Station Channel</b> 203	<b>Station Class</b> B
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**Hours of Operation:** Unlimited

**Facility Type:** Noncommercial Educational

<b>Transmitter</b> Certified for Compliance. See Sections 73.1660, 73.1665 and 73.1670 of the Commission's Rules.	<b>Transmitter Output Power</b> As required to achieve authorized ERP.
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<b>Antenna Type</b> Directional	<b>Antenna Coordinates (NAD 83)</b> Latitude 36-12-16.0 N Longitude 119-33-56.0 W
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**Major Lobe Directions**  
Not Applicable

	<b>Horizontally Polarized Antenna</b>	<b>Vertically Polarized Antenna</b>
<b>Effective Radiated Power in the Horizontal Plane (kW)</b>	40	40

<b>Height of Radiation Center Above Ground (meters)</b>	110	110
<b>Height of Radiation Center Above Mean Sea Level (meters)</b>	179	179
<b>Height of Radiation Center Above Average Terrain (meters)</b>	102	102

<b>Antenna Structure Registration Number</b> 1010998	<b>Overall Height of Antenna Structure Above Ground (meters)</b> See the registration for this antenna structure.
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**Obstruction Marking and Lighting Specifications for Antenna Structure**  
See the registration for this antenna structure.

**Special Operating Conditions or Restrictions**

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.

- BEFORE PROGRAM TESTS ARE AUTHORIZED, permittee shall submit the results of a complete proof-of-performance to establish the horizontal plane radiation patterns for both the horizontally and vertically polarized radiation components. This proof-of-performance may be accomplished using the complete full size antenna, or individual bays therefrom, mounted on a supporting structure of identical dimensions and configuration as the proposed structure, including all braces, ladders, conduits, coaxial lines, and other appurtenances; or using a carefully manufactured scale model of the entire antenna, or individual bays therefrom, mounted on an equally scaled model of the proposed supporting structure, including all appurtenances. The proof-of-performance may also be accomplished using computer modeling, assuming it satisfies all of the requirements of 47 C.F.R. Section 73.316. (See 47 C.F.R. Section 73.316(c)(2)(iv)). Engineering exhibits should include a description of the antenna testing facilities and equipment employed, including appropriate photographs or sketches and a description of the testing procedures, including scale factor, measurements frequency, and equipment calibration.
- BEFORE PROGRAM TESTS ARE AUTHORIZED, permittee/licensee shall submit an affidavit that the installation of the directional antenna system was overseen by a qualified engineer. This affidavit shall include a certification by the engineer that the antenna was installed pursuant to the manufacturer's instructions and list the qualifications of the certifying engineer.
- BEFORE PROGRAM TESTS ARE AUTHORIZED, permittee must submit a certification executed by a licensed surveyor showing that the FM directional antenna system has been oriented at the azimuth(s) specified in the directional antenna proof of performance. This certification must include a description of the method used by the surveyor to determine the azimuth(s) of the installed directional antenna system and the accuracy of that determination.
- BEFORE PROGRAM TESTS ARE AUTHORIZED, the permittee must submit an exhibit demonstrating that the measured directional antenna pattern complies with the appropriate community coverage provisions of 47 C.F.R. Sections 73.315 or 73.515 (See 47 C.F.R. Section 73.316(c)(2)(ix)(B)).
- 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 this construction permit. A relative field strength of 1.0 on the composite radiation pattern herein authorized corresponds to the following effective radiated power: 40 kilowatts. Principal minima and their associated field strength limits: 210 -230 degrees True: 1.30 kilowatts.

- Permittee shall submit a statement certifying that a fence has been constructed at least 1 meter from the base of the tower and in such a manner as to prevent the exposure of humans to radiofrequency electromagnetic fields in excess of the FCC Guidelines in OET bulletin No. 65, Edition 97-01 August 1997. The fence must be of a type which will preclude casual or inadvertent access, and must include warning signs at appropriate intervals which describe the nature of the hazard.
- This construction permit authorizes the mounting of an antenna on the nondirectional tower of the AM station identified below. During the installation of the antenna, the AM station shall determine operating power by the indirect method (see Section 73.51 of the Commission's Rules). Upon completion of the antenna installation, antenna impedance measurements on the AM antenna shall be made. If the resistance of the AM antenna has changed by more than 2 percent from the licensed value (see Section 73.45(c)(1) of the Commission's Rules), an application for the AM station to return to direct power measurement, including a tower sketch of the installation, shall be filed with the Commission by the AM station licensee using form FCC 302-AM. (See Section 1.30003 of the Commission's Rules.) The permittee must submit confirmation of completion of the requirements of this condition in the application for license to cover this construction permit. Station KGEN (AM), Facility ID No. 57446, Tulare, CA.

Subject to the provisions of the Communications Act of 1934, as amended, subsequent acts and treaties, and all regulations heretofore or hereafter made by this Commission, and further subject to the conditions set forth in this permit, the permittee is hereby authorized to construct the radio transmitting apparatus herein described. Installation and adjustment of equipment not specifically set forth herein shall be in accordance with representations contained in the permittee's application for construction permit except for such modifications as are presently permitted, without application, by the Commission's Rules (See Section 73.875).

Pursuant to Section 73.3598, this Construction Permit will be subject to automatic forfeiture unless construction is complete and application for license is filed prior to expiration.

Equipment and program tests shall be conducted only pursuant to Sections 73.1610 and 73.1620 of the Commission's Rules.