Federal Communications Commission

FM BROADCAST STATION CONSTRUCTION PERMIT

Permittee
Acorn Community
Enterprises
29632 Highway 299E
Round Mountain, CA, 96084

Call Sign	Facility ID
	767361

File Number		
0000167528		
Filing Date	**Grant Date**	**Expiration Date**
11/09/2021	01/05/2022	36 months after the grant date

Community of License	Frequency (MHz)	Station Channel	Station Class
City: ROUND MOUNTAIN **State:** CA	91.5	218	A
Hours of Operation: Unlimited			
Facility Type: Noncommercial Educational			

Transmitter	Transmitter Output Power
Certified for Compliance. See Sections 73.1660, 73.1665 and 73.1670 of the Commission's Rules.	As required to achieve authorized ERP.
Antenna Type Directional	**Antenna Coordinates (NAD 83)** **Latitude** 40-54-22.5 N **Longitude** 121-49-43.0 W
Major Lobe Directions Not Applicable	

	Horizontally Polarized Antenna	Vertically Polarized Antenna
Effective Radiated Power in the Horizontal Plane (kW)	0.11	0.11

Height of Radiation Center Above Ground (meters)	28	28
Height of Radiation Center Above Mean Sea Level (meters)	1724	1724
Height of Radiation Center Above Average Terrain (meters)	663	663

Antenna Structure Registration Number 1294698	**Overall Height of Antenna Structure Above Ground (meters)** See the registration for this antenna structure.
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.

- Since the application proposes to mount an FM antenna above the co-located existing directional antenna of KKRN(FM), Bella Vista, California (Facility ID No. 172603), the permittee must submit an exhibit including a statement from the manufacturer of KKRN's directional antenna stating that the proposed antenna will have no adverse effect on the KKRN directional antenna pattern.
- BEFORE PROGRAM TESTS ARE AUTHORIZED, the permittee must 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. Engineering exhibits must 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, the 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 affidavit that the installation of the directional antenna system was overseen by a qualified engineer. This affidavit must 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, the permittee must submit an exhibit demonstrating that the measured directional antenna pattern complies with the appropriate community coverage requirements of 47 C.F.R. Sections 73.315 or 73.515 (See 47 C.F.R. § 73.316(c)(2)(ix)(B)).
- The RMS of the composite measured relative field horizontal plane directional antenna pattern must encompass at least 85% of the RMS of the composite relative field horizontal plane directional antenna pattern authorized by this construction permit.
- 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: 0.11 kilowatt. Principal minima and their associated field strength limits: 330 to 130 degrees True (clockwise): 0.0035 kilowatt (3.5 watts).

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 83.875).

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.