

# Federal Communications Commission

## FM BROADCAST STATION CONSTRUCTION PERMIT

**Permittee**

Texas Public Radio  
321 W. Commerce  
Street  
San Antonio, TX, 78205

<b>Call Sign</b>	<b>Facility ID</b>
	766262

<b>File Number</b> 0000166682		
<b>Filing Date</b> 08/31/2022	<b>Grant Date</b> 11/16/2022	<b>Expiration Date</b> 36 months after the grant date

<b>Community of License</b> City: Gonzales State: TX	<b>Frequency (MHz)</b> 91.9	<b>Station Channel</b> 220	<b>Station Class</b> C3
<b>Hours of Operation:</b> Unlimited			
<b>Facility Type:</b> 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.
<b>Antenna Type</b> Directional	<b>Antenna Coordinates (NAD 83)</b> Latitude 29-30-36.4 N Longitude 97-24-51.6 W
<b>Major Lobe Directions</b> Not Applicable	

	<b>Horizontally Polarized Antenna</b>	<b>Vertically Polarized Antenna</b>
<b>Effective Radiated Power in the Horizontal Plane (kW)</b>	20	20

<b>Height of Radiation Center Above Ground (meters)</b>	41	41
<b>Height of Radiation Center Above Mean Sea Level (meters)</b>	131	131
<b>Height of Radiation Center Above Average Terrain (meters)</b>	37	37

<b>Antenna Structure Registration Number</b> Not Required	<b>Overall Height of Antenna Structure Above Ground (meters)</b> 47
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**Obstruction Marking and Lighting Specifications for Antenna Structure**

It is 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.

**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.

- \*\*\*\*\* This is a Section 73.215 contour protection grant as requested by this applicant \*\*\*\*\*
- BEFORE PROGRAM TESTS COMMENCE, sufficient measurements must be made to establish that the operation authorized in this construction permit is in compliance with the spurious emissions requirements of 47 C.F.R. Sections 73.317(b) through 73.317(d). All measurements must be made with all stations simultaneously utilizing the shared antenna. These measurements must be submitted to the Commission with the FCC application for license.
- Pursuant to 47 CFR Sections 73.7002(c) and 73.7005(b) the permittee/licensee is required to construct and operate for a period of four years of on-air operations technical facilities substantially as proposed and shall not downgrade service to the area on which the preference was based.
- Pursuant to 47 CFR Sections 73.7005(a) and 73.7005(c), the permittee/licensee must maintain its comparative qualifications and comply with the restrictions on assignments/transfers. From the grant of the construction permit until the station has achieved at least four years of on-air operations, the permittee /licensee must maintain the comparative characteristics for which it received points and comply with the restrictions on station modifications and acquisitions. If the permittee/licensee proposes to assign/transfer the construction permit/license to another party during the period from grant of the construction period until the station has achieved at least four years of on-air operations, it must demonstrate the following two factors: (1) that the proposed buyer would qualify for the same number of or greater points as the assignor or transferor originally received, and (2) that consideration received and/or promised does not exceed the assignor's or transferor's legitimate and prudent expenses.
- Program tests for the new station serving Gonzales, Texas (Facility ID No. 766262) will not commence with the facilities authorized herein until Texas Public Radio ceases operation of, and divests all interest in AM Station KCTI, Gonzales, Texas (Facility ID No. 24564). Furthermore, a license will not be granted for this station with the facilities authorized herein until the Texas Public Radio divests all interest in KCTI. A certification including the date that KCTI's facility was cancelled or the date the assignment was consummated must be included as an attachment to the FCC Schedule 302-FM application for license to cover this construction permit.

- Program tests for the new station serving Gonzales, Texas (Facility ID No. 766262) will not commence with the facilities authorized herein until Texas Public Radio ceases operation of, and divests all interest in Translator Station K223CZ, Gonzales, Texas (Facility ID No. 201485). Furthermore, a license will not be granted for this station with the facilities authorized herein until the Texas Public Radio divests all interest in K223CZ. A certification including the date that K223CZ's facility was cancelled or the date the assignment was consummated must be included as an attachment to the FCC Schedule 302-FM application for license to cover this construction permit.
- 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: 20 kilowatts. Principal minima and their associated field strength limits: 30 degrees True: 12.36 kilowatts; 320 degrees True: 11.1 kilowatts.
- This construction permit authorizes the mounting of an antenna on the nondirectional tower of AM Station KCTI, Gonzales, Texas (Facility ID No. 24564). 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 the FCC AM station application for license form. (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.

- THE AUTOMATIC PROGRAM TEST PROVISIONS OF 47 C.F.R. § 73.1620 DO NOT APPLY IN THIS CASE. A FORMAL REQUEST FOR PROGRAM TEST AUTHORITY MUST BE FILED WITH THE FCC APPLICATION FOR LICENSE BEFORE PROGRAM TESTS WILL BE AUTHORIZED. This request must contain documentation which demonstrates compliance with the following special operating condition:
- The permittee/licensee must, upon completion of construction and during the equipment test period, make proper radiofrequency electromagnetic (RF) field strength measurements throughout the transmitter site area, including on the roof and throughout all nearby buildings, to determine if there are any areas that exceed the FCC guidelines for human exposure to RF fields. Any areas, including on the roof or inside a building, found to exceed the recommended guidelines must be clearly marked with appropriate visual warning signs which describe the nature of the hazard. Furthermore, access to these areas must be restricted. If necessary, a fence must be erected at such distances and in such a manner as to prevent the exposure of humans to RF fields in excess of the FCC Guidelines (OET Bulletin No. 65, Edition 97-01, August 1997). The fence must be a type which will preclude casual or inadvertent access and must include warning signs at appropriate intervals which describe the nature of the hazard. Any areas within the fence found to exceed the recommended guidelines must be clearly marked with appropriate visual warning signs.

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.