

# Federal Communications Commission

## FM AUXILIARY ANTENNA BROADCAST STATION CONSTRUCTION PERMIT

**Permittee**

UNIVERSITY OF NORTH  
TEXAS  
1155 UNION CIRCLE #310881  
DENTON, TX, 76203

Call Sign	Facility ID
KNTU	69003

<b>File Number</b> 0000204917	<b>This Permit Modifies License File No.</b> 0000204739	
<b>Filing Date</b> 12/08/2022	<b>Grant Date</b> 01/23/2023	<b>Expiration Date</b> 36 months after the grant date

<b>Community of License</b>  City: MCKINNEY State: TX	<b>Frequency (MHz)</b> 88.1	<b>Station Channel</b> 201	<b>Station Class</b> C1
<b>Hours of Operation:</b> Unlimited - For auxiliary purposes only			

<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>  <b>Latitude</b> 33-17-24.0 N <b>Longitude</b> 97-8-11.0 W

	Horizontally Polarized Antenna	Vertically Polarized Antenna
<b>Effective Radiated Power in the Horizontal Plane (kW)</b>	79	79
<b>Height of Radiation Center Above Ground (meters)</b>	116	116
<b>Height of Radiation Center Above Mean Sea Level (meters)</b>	305.4	305.4

<b>Height of Radiation Center Above Average Terrain (meters)</b>	111	111
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<b>Antenna Structure Registration Number</b> 1053099	<b>Overall Height of Antenna Structure Above Ground (meters)</b> See the registration for this antenna structure.
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<b>Obstruction Marking and Lighting Specifications for Antenna Structure</b>  See the registration for this antenna structure.
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<b>Special Operating Conditions or Restrictions</b>  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. <ul style="list-style-type: none"> <li>• Permittee has specified use of the antenna listed below to demonstrate compliance with the FCC radiofrequency electromagnetic field exposure guidelines. If any other type or size of antenna is to be used with the facilities authorized herein, THE AUTOMATIC PROGRAM TEST PROVISIONS OF 47 C.F.R. SECTION 73.1620 WILL NOT APPLY. In this case, a FORMAL REQUEST FOR PROGRAM TEST AUTHORITY must be filed in conjunction with FCC Form 302-FM, application for license, BEFORE program tests will be authorized. The request must include a revised RF field showing to demonstrate continued compliance with the FCC guidelines. Jampro model JSCP-6R, six sections</li> <li>• 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. 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.</li> <li>• 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.</li> <li>• 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.</li> <li>• 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: 79 kilowatts. Principal minima and their associated field strength limits: 190 degrees True: 33 kilowatts</li> </ul>
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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.

