



United States of America  
**FEDERAL COMMUNICATIONS COMMISSION**  
**FM BROADCAST STATION CONSTRUCTION PERMIT**

Authorizing Official:

Official Mailing Address:

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WINSTON-SALEM STATE UNIVERSITY  
P.O. BOX 13095  
WINSTON-SALEM NC 27110

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Edward P. De La Hunt  
Associate Chief  
Audio Division  
Media Bureau

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Facility ID: 72969

Call Sign: WSNB

Permit File Number: BMPED-19910508JW

Grant Date:

This permit expires 3:00 a.m.  
local time, 0 months after the  
grant date specified above.

This Permit Modifies Permit No.: BPED-19870424MA

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.

Commission rules which became effective on February 16, 1999, have a bearing on this construction permit. See Report & Order, Streamlining of Mass Media Applications, MM Docket No. 98-43, 13 FCC RCD 23056, Para. 77-90 (November 25, 1998); 63 Fed. Reg. 70039 (December 18, 1998). Pursuant to these rules, this construction permit will be subject to automatic forfeiture unless construction is complete and an application for license to cover is filed prior to expiration. See Section 73.3598.

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

Name of Permittee: WINSTON-SALEM STATE UNIVERSITY

Station Location: NC-WINSTON-SALEM

Frequency (MHz): 90.5

Channel: 213

Class: C2

Hours of Operation: Unlimited

Transmitter: Type Accepted. See Sections 73.1660, 73.1665 and 73.1670 of the Commission's Rules.

Transmitter output power: As required to achieve authorized ERP.

Antenna type: Directional

Antenna Coordinates: North Latitude: 36 deg 05 min 24 sec  
West Longitude: 80 deg 13 min 20 sec

|                                                            | Horizontally<br>Polarized<br>Antenna | Vertically<br>Polarized<br>Antenna |
|------------------------------------------------------------|--------------------------------------|------------------------------------|
| Effective radiated power in the Horizontal Plane (kW):     | 10.0                                 | 10.0                               |
| Height of radiation center above ground (Meters):          | 81                                   | 81                                 |
| Height of radiation center above mean sea level (Meters):  | 319                                  | 319                                |
| Height of radiation center above average terrain (Meters): | 59                                   | 59                                 |

Antenna structure registration number: Not Required

Overall height of antenna structure above ground: 98 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 Prior to construction of the tower authorized herein, permittee shall notify AM Station(s) listed below so that, if necessary, the AM station(s) may determine operating power by the indirect method and request temporary authority from the Commission in Washington, D.C. to operate with parameters at variance in order to maintain monitoring point field strengths within authorized limits. Permittee shall be responsible for the installation and continued maintenance of detuning apparatus necessary to prevent adverse effects upon the radiation pattern of the AM station(s). Both prior to construction of the tower and subsequent to the installation of all appurtenances thereon, a partial proof of performance, as defined by Section 73.154(a) of the Commission's Rules, shall be conducted to establish that the AM array has not been adversely affected and, prior to or simultaneous with the filing of the application for license to cover this permit, the results submitted to the Commission.

(Revised March 14, 1983)

WSMX

Special operating conditions or restrictions:

- 2 .
- UNDER THE PROCEDURE ADOPTED IN THE "FIRST REPORT AND ORDER" IN DOCKET 88-375, 4 FCC RCD 2792 (1989), PARAGRAPH 22, THE FACILITIES AUTHORIZED BY THIS PERMIT WILL BE RECLASSIFIED TO CLASS C3 ON JUNE 1, 1991 UNLESS THIS FACILITY IS UPGRADED TO AT LEAST MINIMUM CLASS C2 FACILITIES PRIOR TO THAT DATE.
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1. 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.
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2. THE RELATIVE FIELD STRENGTH OF NEITHER THE MEASURED HORIZONTALLY NOR VERTICALLY POLARIZED COMPONENT SHALL EXCEED AT ANY AZIMUTH THE VALUE INDICATED ON THE COMPOSITE RADIATION PATTERN AUTHORIZED BY THIS CONSTRUCTION PERMIT.
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- A RELATIVE FIELD STRENGTH OF 1.0 ON THE COMPOSITE RADIATION PATTERN HEREIN AUTHORIZED CORRESPONDS TO THE FOLLOWING EFFECTIVE RADIATED POWER:  
10 KILOWATTS.
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- PRINCIPAL MINIMA AND THEIR ASSOCIATED FIELD STRENGTH LIMITS:  
30 DEGREES TRUE:1.37 KILOWATTS  
70 DEGREES TRUE:3.4 KILOWATTS  
170 DEGREES TRUE:3.4 KILOWATTS  
210 DEGREES TRUE:1.37 KILOWATTS  
250 DEGREES TRUE:3.4 KILOWATTS  
350 DEGREES TRUE:3.4 KILOWATTS
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3. BEFORE PROGRAM TESTS ARE AUTHORIZED, PERMITTEE SHALL SUBMIT AN AFFIDAVIT FROM A LICENSED SURVEYOR TO ESTABLISH THAT THE DIRECTIONAL ANTENNA HAS BEEN ORIENTED AT THE PROPER AZIMUTH.
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\*\*\* END OF AUTHORIZATION \*\*\*