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FEDERAL COMMUNICATIONS COMMISSION  
FM BROADCAST STATION LICENSE



Official Mailing Address:

MEMPHIS STATE UNIVERSITY  
THEATRE/COMM. ARTS BLDG  
MEMPHIS, TN 38152

Authorizing Official:

*Arthur E. Doak*

*for*

Dennis L. Williams  
Chief, FM Branch  
Audio Services Division  
Mass Media Bureau

Grant Date: JAN 10 1994

Call sign: WSMS

This license expires 3:00 am.  
local time: August 01, 1996

License File No.: BLED-921020KA

This license covers Permit No.: 841221IO

as modified by Permit No.: BMPED-920409IA

Subject to the provisions of the Communications Act of 1934, subsequent acts and treaties, and all regulations heretofore or hereafter made by this Commission, and further subject to the conditions set forth in this license, the licensee is hereby authorized to use and operate the radio transmitting apparatus herein described.

This license is issued on the licensee's representation that the statements contained in licensee's application are true and that the undertakings therein contained so far as they are consistent herewith, will be carried out in good faith. The licensee shall, during the term of this license, render such broadcasting service as will serve the public interest, convenience, or necessity to the full extent of the privileges herein conferred.

This license shall not vest in the licensee any right to operate the station nor any right in the use of the frequency designated in the license beyond the term hereof, nor in any other manner than authorized herein. Neither the license nor the right granted hereunder shall be assigned or otherwise transferred in violation of the Communications Act of 1934. This license is subject to the right of use or control by the Government of the United States conferred by Section 606 of the Communications Act of 1934.

Name of Licensee:

MEMPHIS STATE UNIVERSITY

Station Location:

TN-MEMPHIS

Frequency (MHz): 91.7

Channel: 219

Class: C2

Hours of Operation: Unlimited

Main Studio Address:

TN-Central Avenue, Shelby County, Memphis

Transmitter location (address or description):

1138 SYCAMORE VIEW ROAD, MEMPHIS, SHELBY COUNTY, TENNESSEE

Remote control point address:

TN-Central Avenue, Shelby County, Memphis

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

Transmitter output power (kW): 5.6

Antenna type: (directional or non-directional): Directional

Desc: Dielectric DCRH, four section, circularly polarized

Antenna coordinates: North Latitude: 35 09 17.0  
West Longitude: 89 51 28.0

	Horizontally Polarized Antenna	Vertically Polarized Antenna
Effective radiated power in the horizontal plane (kW) . . . . . :	25.0	24.0
Height of radiation center above ground (meters) . . . . . :	128.0	128.0
Height of radiation center above mean sea level (meters) . . . . . :	210.0	210.0

Height of radiation center above  
average terrain (meters) . . . . . : 120.0 120.0

Overall height of antenna structure above ground (including obstruction  
lighting, if any) . . . . . : 250.0 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.

Paragraph 1.0, FCC Form 715 (March 1978):

Antenna structures shall be painted throughout their height with  
alternate bands of aviation surface orange and white, terminating with  
aviation surface orange bands at both top and bottom. The width of the  
bands shall be equal and approximately one-seventh the height of the  
structure, provided however, that the bands shall not be more than 100  
feet nor less than 1 and 1/2 feet in width. All towers shall be  
cleaned and repainted as often as necessary to maintain good  
visibility.

Paragraph 3.0, FCC Form 715 (March 1978):

There shall be installed at the top of the structure one 300 m/m  
electric code beacon equipped with two 620- or 700-watt lamps (PS-40,  
Code Beacon type), both lamps to burn simultaneously, and equipped  
with aviation red color filters. Where a rod or other construction of  
not more than 20 feet in height and incapable of supporting this  
beacon is mounted on top of the structure and it is determined that  
this additional construction does not permit unobstructed visibility  
of the code beacon from aircraft at any normal angle of approach,  
there shall be installed two such beacons positioned so as to insure  
unobstructed visibility of at least one of the beacons from aircraft  
at any normal angle of approach. The beacons shall be equipped with a  
flashing mechanism producing not more than 40 flashes per minute nor  
less than 12 flashes per minute with a period of darkness equal to  
approximately one-half of the luminous period.

## Paragraph 6.0, FCC Form 715 (March 1978):

On levels at approximately two-thirds and one-third of the overall height of the tower one similar flashing 300 m/m electric code beacon shall be installed in such position within the tower proper that the structural members will not impair the visibility of this beacon from aircraft at any normal angle of approach. In the event these beacons cannot be installed in a manner to insure unobstructed visibility of the beacons from aircraft at any normal angle of approach, there shall be installed two such beacons at each level. Each beacon shall be mounted on the outside of diagonally opposite corners or opposite sides of the tower at the prescribed height.

## Paragraph 15.0, FCC Form 715 (March 1978):

On levels at approximately five-sixths, one-half and one-sixth of the over-all height of the tower, at least one 116- or 125-watt lamp (A21/TS) enclosed in an aviation red obstruction light globe shall be installed on each outside corner of the structure.

## Paragraph 21.0, FCC Form 715 (March 1978):

All lighting shall burn continuously or shall be controlled by a light sensitive device adjusted so that the lights will be turned on at a north sky light intensity level of about 35 foot candles and turned off at a north sky light intensity level of about 58 foot candles.

## Special operating conditions or restrictions:

1. The permittee/licensee must reduce power or cease operation as necessary to protect persons having access to the site, tower or antenna from radiofrequency radiation in excess of FCC guidelines.

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.

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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:

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25 kilowatts

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Principal minima and their associated field strength limits:  
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320 degrees True: 1.0 kilowatts

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Further modifications to the facilities of WKNO(FM),  
Memphis, TN will not be construed as a per se modification  
of WSMS(FM), Memphis, TN. (See "Educational Information  
Corporation," 6 FCC Rcd 2207 (1991))