



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

Authorizing Official:

Official Mailing Address:

MID-SOUTH PUBLIC COMMUNICATIONS FOUNDATION  
7151 CHERRY FARMS ROAD  
CORDOVA TN 38016

Penelope A. Dade  
Supervisory Analyst  
Audio Division  
Media Bureau

Facility ID: 41887

Call Sign: WKNO-FM

Permit File Number: BPED-19881128ME

Grant Date: April 03, 1989

This permit expires 3:00 a.m.  
local time, October 03, 1990.

EXPERIMENTAL BROADCAST STATION CONSTRUCTION PERMIT

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: MID-SOUTH PUBLIC COMMUNICATIONS FOUNDATION

Station Location: TN-MEMPHIS

Frequency (MHz): 91.1

Channel: 216

Class: C1

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: Non-Directional

Antenna Coordinates: North Latitude: 35 deg 09 min 17 sec  
West Longitude: 89 deg 49 min 20 sec

	Horizontally Polarized Antenna	Vertically Polarized Antenna
Effective radiated power in the Horizontal Plane (kW):	100	100
Height of radiation center above ground (Meters):	167	167
Height of radiation center above mean sea level (Meters):	269	269
Height of radiation center above average terrain (Meters):	176	176

Antenna structure registration number: Not Required

Overall height of antenna structure above ground: 340 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 1. A MEASUREMENT PROGRAM SHALL BE IMPLEMENTED TO DETERMINE THE EXTENT OF INTERFERENCE TO RECEPTION OF WSMS(FM) WITHIN THE 100 DBU CONTOUR OF WKNO(FM) AND TO THE RECEPTION OF WKNO(FM) WITHIN THE 100 DBU CONTOUR OF WSMS(FM). MEASUREMENT LOCATIONS SHALL BE SELECTED BY LAYING A GRID CONSISTING OF HORIZONTAL AND VERTICAL LINES SEPERATED BY 2 KILOMETERS OVER A MAP SHOWING THE 100 DBU CONTOUR OF WKNO(FM) AND THE 100 DBU CONTOUR WSMS(FM) AND SELECTING THE MEASUREMENT LOCATIONS AT EACH GRID INTERSECTION WITHIN THE SPECIFIED CONTOURS. AT EACH MEASUREMENT LOCATION THE RELATIVE FIELD STRENGTH OF THE TWO STATIONS SHALL BE MEASURED USING A CALIBRATED FIELD STRENGTH METER (SUCH AS A POTOMAC INSTRUMENTS FIM-71 OR EQUIVALENT) USED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS. IN ADDITION, AT EACH MEASUREMENT LOCATION A MINIMUM OF FIVE RECEIVERS VARYING IN COST AND QUALITY SHALL BE TESTED TO DETERMINE IF THEY ARE SUCEPTIBLE TO INTERFERENCE. THESE SHALL INCLUDE ONE STANDARD AM/FM CAR RECEIVER WITH ANALOG TUNING, ONE DIGITALLY TUNED CAR RECEIVER AND AT LEAST ONE OTHER RECEIVER WHICH EMPLOYS DIGITAL TUNING. THE FOLLOWING SYSTEM SHALL BE USED TO RECORD RECEPTION QUALITY:
  - 0 NO INTERFERENCE.
  - 1 INTERFERENCE BARELY NOTICEABLE.
  - 2 INTERFERENCE NOTICEABLE BUT RECEPTION STILL SATISFACTORY.
  - 3 INTERFERENCE SOMEWHAT ANNOYING.
  - 4 INTERFERENCE VERY ANNOYING BUT RECEPTION STILL USABLE.
  - 5 DESIRED STATION NOT USABLE BECAUSE OF INTERFERENCE.IN THE EVENT THERE IS A QUESTION AS TO THE SOURCE OF INTERFERENCE OR DIFFICULTY IS EXPERIENCED IN MEASURING THE FIELD STRENGTHS, THE ASSUMED INTERFERING STATION, EITHER WSMS(FM) OR WKNO(FM), SHOULD MOMENTARILY CEASE OPERATION TO CONFIRM THE SOURCE OF INTERFERENCE. FURTHER MEASUREMENTS MAY BE NEEDED IF INTERFERENCE OCCURS OUTSIDE THESE AREAS.
  2. IN A JOINT VENTURE, WKNO(FM) AND WSMS(FM) SHALL PLACE ANNOUNCEMENTS REGARDING THIS EXPERIMENTAL OPERATION IN A LOCAL NEWSPAPER AT LEAST TWICE PER WEEK DURING THE TWO WEEK PERIOD IMMEDIATELY PRECEEDING COMMENCEMENT OF PROGRAM TESTING.
  3. AT LEAST ONCE DURING EACH TWO-HOUR PERIOD DURING THE FIRST TWO WEEKS OF PROGRAM TESTING, ANNOUNCEMENTS SHALL BE BROADCAST EXPLAINING THAT WSMS(FM) AND WKNO(FM) ARE ENGAGED IN AN EXPERIMENTAL BROADCAST OPERATION AND ADVISING ANY LISTENERS RECEIVING INTERFERENCE TO NOTIFY THE AFFECTED STATION. EACH STATION SHALL KEEP A LOG OF ALL COMPLAINTS RECEIVED, INCLUDING THE COMPLAINANT'S NAME, ADDRESS, PHONE NUMBER, RECEIVER TYPE AND A DESCRIPTION OF THE INTERFERENCE.
  4. AN INITIAL PROGRESS REPORT SHALL BE SUBMITTED TO THE CHIEF, FM BRANCH, AUDIO SERVICES DIVISION, FCC WASHINGTON, WITHIN 14 DAYS OF THE COMMENCEMENT OF EXPERIMENTAL BROADCASTING. A FULL REPORT, CONTAINING THE MEASUREMENTS, THEIR ANALYSIS AND OTHER RESULTS OF THE SURVEY SHALL BE FILED WITHIN 60 DAYS FOLLOWING THE GRANT OF THE EXPERIMENTAL OPERATION.
  5. EACH STATION SHALL MAINTAIN THE CAPABILITY OF REVERTING TO THEIR CURRENTLY LICENSED FACILITIES SHOULD SUCH OPERATION BE NECESSARY DUE TO OBJECTIONABLE INTERFERENCE WITH THEIR EXPERIMENTAL FACILITIES.
  6. THIS EXPERIMENTAL AUTHORIZATION MAY BE MODIFIED OR REVOKED BY THE FCC WITHOUT PRIOR NOTICE OR RIGHT TO A HEARING.
  7. WSMS(FM) AND WKNO(FM) SHALL FILE FCC FORMS 302, APPLICATION FOR LICENSE, ALONG WITH THE REQUESTS FOR PROGRAM TEST AUTHORITY WITH THE FCC IN WASHINGTON, D.C. AT LEAST 10 DAYS PRIOR TO THE DATE ON WHICH THEY DESIRE TO BEGIN PROGRAM TESTS.

Callsign: WKNO-FM

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Special Operating Conditions shall notify the ENGINEER IN  
CHARGE, FCC FIELD OFFICE, ATLANTA, GEORGIA, AT LEAST ONE  
WEEK PRIOR TO COMMENCEMENT OF PROGRAM TESTING.

\*\*\* END OF AUTHORIZATION \*\*\*