



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

Authorizing Official:

Official Mailing Address:

BOARD OF TRUSTEES, MICHIGAN STATE UNIVERSITY  
WKAR-AM/FM/TV  
404 WILSON RD, ROOM 212  
EAST LANSING MI 48824

Clay C. Pendarvis  
Associate Chief  
Video Division  
Media Bureau

Facility Id: 6104  
Analog TSID: 1494  
Digital TSID: 1495  
Call Sign: WKAR-TV  
Permit File Number: BMPEDT-20080620AIJ

Grant Date: August 11, 2009

This permit expires 3:00 a.m.  
local time, 36 months after the  
grant date specified above.

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.

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

Name of Permittee: BOARD OF TRUSTEES, MICHIGAN STATE UNIVERSITY

Station Location: MI-EAST LANSING

Frequency (MHz): 626 - 632

Channel: 40

Hours of Operation: Unlimited

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

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

Description: DIE, TFU-18GTH-R C170

Beam Tilt: 0.5 Degrees Electrical

Major lobe directions 200 340  
(degrees true):

Antenna Coordinates: North Latitude: 42 deg 42 min 07 sec  
West Longitude: 84 deg 24 min 48 sec

Transmitter output power: As required to achieve authorized ERP.

Maximum effective radiated power (Average): 425 kW  
26.3 DBK

Height of radiation center above ground: 304.5 Meters

Height of radiation center above mean sea level: 564.2 Meters

Height of radiation center above average terrain: 295.5 Meters

Antenna structure registration number: 1001092

Overall height of antenna structure above ground (including obstruction lighting if any) see the registration for this antenna structure.

Special operating conditions or restrictions:

- The grant of this construction permit is subject to the condition that, with ample time before commencing operation, you make a good faith effort to identify and notify health care facilities (e.g., hospitals, nursing homes, see 47 CFR 15.242(a)(1)) within your service area potentially affected by your DTV operations. Contact with state and/or local hospital associations and local governmental health care licensing authorities may prove helpful in this process. During this pre-broadcast period, you must provide all notified entities with relevant technical details of your operation, such as DTV channel, targeted on-air date, effective radiated power, antenna location, and antenna height. You are required to place in the station's public inspection file documentation of the notifications and contacts made and you may not commence operations until good faith efforts have been made to notify affected health care facilities. During this pre-broadcast period and for up to twenty (20) days after commencing operations, should you become aware of any instances of medical devices malfunctioning or that such devices are likely to malfunction due to your DTV operations, you must cooperate with the health care facility so that it is afforded a reasonable opportunity to resolve the interference problem. At such time as all provisions of this condition have been fulfilled, and either upon the expiration of twenty (20) days following commencement of operations or when all known interference problems have been resolved, whichever is later, this condition lapses.

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