

TECHNICAL EXHIBIT
APPLICATION FOR DTV CONSTRUCTION PERMIT
FOR MINOR CHANGE TO
STATION KWHB-DT
FACILITY ID: 37099
TULSA, OKLAHOMA

6 March 2008

CH 47 50KW (MAX-DA) 460M

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Technical Narrative

Background

LeSEA Broadcasting Corp. is the licensee of KWHB, located in Tulsa, OK. The station is currently operating its digital facility on pre-transition Channel 48, with the following parameters:

Pre-transition Facility (Ch 48)

Coordinates: 36° 01' 15" N (NAD27)
95° 40' 32" W
ERP: 29kW (DA)
HAAT: 460m

KWHB elected Channel 47 as its post-transition channel and has been allotted the post-transition Appendix B facility with the following operating parameters:

Coordinates: 36° 01' 15" N (NAD27)
95° 40' 32" W
ERP: 50kW (DA)
HAAT: 460m

The tower that will be used for the KWHB antenna is a multi-user structure shared with KJRH-DT (post-transition Channel 8), KOED-DT (post-transition Channel 11), and KOTV-DT (post-transition Channel 45). The FCC Registration number for the tower is 1011355.

Antenna System

A Dielectric TFU-24DSC-R C170 directional antenna is presently in use. All antenna technical parameters agree with the antenna specified in the Appendix B facility. The same antenna will be used post-transition.

Coverage

The entire community of Tulsa, OK, is within the predicted F(50,90) 48 dB μ contour with the proposed 50 kW ERP.

Interference

KWHB is not seeking to expand its service contour beyond that specified by its Appendix B facility in any direction. No interference analysis is required to be submitted with this application.

Environmental/RFR

All non-RFR aspects of environmental analysis are provided to the FCC by the tower owner as part of the tower registration process.

The potential radiofrequency electromagnetic field exposure at ground level has been evaluated in accordance with OET Bulletin No. 65, Evaluating Compliance with FCC Specified Guidelines for Human Exposure to Radiofrequency Electromagnetic Fields. Power density at the base of the tower was calculated using procedures contained in the Bulletin.

The KWHB-DT antenna is side mounted on the existing tower. The antenna center of radiation is 434 meters above ground level. The calculated power density at 2 meters above ground level was calculated using the appropriate equation in the Bulletin. Using a worst case vertical relative field value of 1.0, the calculated power density is 0.0089 milliwatts per square centimeter, which is 1.98% of the FCC's recommended limit of 0.45 mW/cm² for channel 47, applicable to uncontrolled areas of exposure. This is below the responsibility threshold of 5%. Therefore, this application is in compliance with the FCC's RFR rules.

Access to the site is restricted and marked with warning signs. If workers must enter the restricted area or climb the tower, power will be adjusted or operation cease, as may be necessary to ensure a compliant environment for personnel.

If there are questions concerning this technical statement or the technical portion of this application, please communicate with the office of the undersigned.

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