



## ***Engineering Report***

Community Broadcasting, Inc.  
New Translator - Poplar Bluff, MO

This consultant has been retained by Community Broadcasting, Inc. (Community) for the purpose of preparing the technical portion of Form 349 in application for a new translator station on Channel 252 in Poplar Bluff, MO.

A full search of the Commission's FM database was performed and it was found that Channel 252 can be used in Poplar Bluff, MO in full compliance with the interference requirements as set forth in 47 CFR 74.1204. A copy of the spacing study is included in this report as Exhibit 1. From Exhibit 1 it was found that there are four radio stations to which the minimum spacing requirements of 47 CFR 73.207 are not met when the proposed operation is considered a Class A operation. Specifically, those stations are KTJJ in Farmington, MO, KFCM in Cherokee Village, AR, WRIK-FM in Metropolis, IL, and the pending application for Channel 252 LP-100 in Kennett, MO. Exhibit 2 of this report is a digitally generated map which graphically demonstrates the lack of prohibited overlap between the proposed operation and KTJJ. Exhibit 3 of this report is a digitally generated map which graphically demonstrates the lack of prohibited overlap between the proposed operation and KFCM. Exhibit 4 of this report is a digitally generated map which graphically demonstrates the lack of prohibited overlap between the proposed operation and WRIK-FM and Exhibit 5 of this report is a digitally generated map which graphically demonstrates the lack of prohibited overlap between the proposed operation and BNPL20010117AAO.

3718 W 52<sup>nd</sup> Terrace  
Shawnee Mission, KS 66205  
(913) 362-7282

The proposed Channel 252 operation is further compliant with the maximum power restrictions as set forth in 47 CFR 74.1235(b)(2). Exhibit 6 of this report is a 12 radial HAAT determination which reveals that the Maximum HAAT on any radial is 143.9 meters which occurs on the 180° radial.

Exhibit 7 is a plot of the predicted power density of Non Ionizing RF Radiation as predicted with the Commission's FM Model Software. As shown in Exhibit 7, the predicted power density reaches a maximum of 0.2162 uW/cm<sup>2</sup> at a distance of 50 meters from the tower base which is well below the 0.2 mW/cm<sup>2</sup> maximum as set forth in ANSI C95.1.

**Certification**

All information in this report and its associated exhibits is true and accurate to the best of my belief. Having had numerous matters before the Commission, my qualifications are a matter of record.

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August 6, 2003

Date

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R. Lee Wheeler

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