



## ***Engineering Report***

Community Broadcasting, Inc.  
New Translator - Osceola, 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 277 in Osceola, MO.

A full search of the Commission's FM database was performed and it was found that Channel 277 can be used in Osceola, 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 two 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 KPRS in Kansas City, MO and KJEL in Lebanon, MO. Exhibit 2 of this report is a digitally generated map which graphically demonstrates the lack of prohibited overlap between the proposed operation and KPRS. Exhibit 3 of this report is a digitally generated map which graphically demonstrates the lack of prohibited overlap between the proposed operation and KJEL.

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The proposed Channel 277 operation is further compliant with the maximum power restrictions as set forth in 47 CFR 74.1235(b)(2). Exhibit 4 of this report is a 12 radial HAAT determination which reveals that the Maximum HAAT on any radial is 106.2 meters which occurs on the 240° radial.

Exhibit 4 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 4, the predicted power density reaches a maximum of 0.3681  $\mu\text{W}/\text{cm}^2$  at a distance of 34.4 meters from the tower base which is well below the 0.2  $\text{mW}/\text{cm}^2$  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.

August 26, 2003

Date

R. Lee Wheeler

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