



Engineering Report

Community Broadcasting, Inc.
New Translator - Carthage, 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 284 in Carthage, MO.

A full search of the Commission's FM database was performed and it was found that Channel 284 can be used in Carthage, 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 or applications 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 KKLH in Marshfield, MO, KVCY in Fort Scott, KS, BNPFT20030312BCR in Neosho, MO, and KJML in Columbus, KS. Exhibit 2 of this report is a digitally generated map which graphically demonstrates the lack of prohibited overlap between the proposed operation and KKLH. Exhibit 3 of this report is a digitally generated map which graphically demonstrates the lack of prohibited overlap between the proposed operation and KVCY. Exhibit 4 of this report is a digitally generated map which graphically demonstrates the lack of prohibited overlap between the proposed operation and BNPFT20030312BCR. Exhibit 5 of this report is a digitally generated map which graphically demonstrates the lack of prohibited overlap between the proposed operation and KJML.

The proposed Channel 284 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 demonstrates that the maximum power and HAAT on any of the 12 cardinal radials is at or below the allowable maximums.

Exhibit 7 is a power density plot generated with the Commission's FM Model software which demonstrates that the proposed operation has a maximum power density of $0.1599 \mu\text{W}/\text{cm}^2$ which occurs at a distance of 48 meters. This power density is well below the $0.2 \text{ mW}/\text{cm}^2$ maximum prescribed 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 21, 2003

Date

R. Lee Wheeler

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