



## ***Engineering Report***

Missouri Valley Broadcasting, Inc.  
KMMO-FM – Marshall, MO

This consultant has been retained by Missouri Valley Broadcasting, Inc. (MVB), licensee of KMMO-FM in Marshall, MO, for the purpose of preparing the technical portion of Form 301 in application for a modification to the presently licensed KMMO-FM facilities. Specifically, MVB proposes to relocate KMMO-FM to a new site, increase the antenna height, and decrease ERP.

### **Proposed Operation**

The proposed KMMO-FM tower is registered and carries the registration number 1236026. The proposed KMMO-FM operation is also fully compliant with the principal community coverage requirements as set forth in 47 CFR 73.315. Exhibit 1 of this report is a digitally generated map which shows the predicted 60 dBu and 70 dBu service contours of the KMMO-FM operation as well as the corporate boundaries of Marshall, MO. As shown in Exhibit 1, the entire city of Marshall receives a predicted signal well in excess of 70 dBu. A full search of the Commission's CDBS database has been performed which shows that the proposed KMMO-FM operation will be fully spaced to all stations with the exception of KQTP (FM) in St. Mary, KS. A copy of that study is included in this report as Exhibit 2. KQTP (FM) is short spaced to the licensed KMMO-FM facilities as well and employed a directional antenna for their operation so as to protect KMMO-FM.

### **Proposed Operation (Continued)**

Inasmuch as KQTP (FM) was itself authorized under the provisions of 47 CFR 73.215 the actual KQTP protected and interfering contours were utilized for the purposes of demonstrating the lack of prohibited overlap between the proposed KMMO-FM operation and KQTP (FM). Exhibit 3 of this report is a digitally generated map which graphically demonstrates the lack of prohibited overlap between KMMO-FM and KQTP (FM).

### **Environmental Issues**

Exhibit 4 of this report is an analysis of Non Ionizing RF Radiation which demonstrates that the proposed operation will pose no environmental risk to persons at ground level outside of the fence which surrounds the tower base.

### **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.

\_\_\_\_\_  
November 18, 2005

Date

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*R. Lee Wheeler*

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