

**MINOR CHANGE APPLICATION**  
**MAINSTREET BROADCASTING COMPANY, INC.**  
**K47KC LPTV STATION**  
**CH 47- (668-674 MHZ) - 10.0 KW**  
**ROMEO, COLORADO**  
**May 2009**

**TECHNICAL STATEMENT**

This Technical Statement and attached exhibits were prepared on behalf of Mainstreet Broadcasting Company, Inc. ("MBC"), licensee of low power analog television station K47KC, Channel 47-, Romeo, Colorado. MBC herein seeks to make minor changes in the facilities of K47KC by increasing the effective radiated power from 1.0 kilowatt to 10.0 kilowatts. No other changes are proposed.

The antenna system for the proposed K47KC facility will be located on an existing tower less than 200 feet in height above ground. As such, the Federal Aviation Administration has not been apprised of this proposal and no tower registration is needed.<sup>1</sup> The proposed increase in effective radiated power for the K47KC facility complies with the Commission's interference rules, based on the use of the Longley-Rice OET-69 Bulletin.<sup>2</sup> It is noted that the terrain was sampled at 0.1 kilometer and a signal cell size of 1.0 kilometer was used (2000 Census population data was used in the review). A simple emission mask was used in the calculations. The proposed K47KC facility will not cause unique interference to the population of any

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1) Based on a review using the Commission's TOWAIR program.

2) The use of the Longley-Rice analysis for analog LPTV/TV Translator stations was authorized in MB Docket #03-185. The Longley-Rice model was implemented on the Probe 3 computer model from V-Soft Communications. This model has been found to closely replicate the results provided by the Commission's computer model.

existing, applied for, or proposed facility, based on a percentage of the total population of the impacted stations. See Exhibit A for a tabulation of the outgoing interference analysis for analog operation on Channel 47-. Attached as Exhibit B is a radio frequency radiation analysis showing the proposed K47KC facility will not cause the RF levels at the site to exceed the Commission's exposure limits.<sup>3</sup>

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3) The undersigned has certified only the RF exposure limits for the proposed facility. All data regarding TV facilities contained herein was extracted from the CDBS database. We assume no liability for errors or omissions in that database which may be adverse to the request contained herein.