



## ***B. W. St. Clair***

---

### ENGINEERING STATEMENT IN SUPPORT OF AN APPLICATION TO MODIFY BPCDT20080317AFG KMIZ-DT, FI 63164, CHANNEL 17, COLUMBIA, MO

#### Introduction

This application requests an increase in ERP while retaining the in-place omni-directional antenna. No outgoing interference beyond the allowable limits results from this power increase.

#### Environmental Assessment

The station will operate using the existing antenna, tower and building of the analog station. There is no construction and consequently no associated environmental impact.

The worst case non-ionizing radiation at head height in the vicinity of the tower calculated in accordance with OET Bul. 65 is 3.6% of the allowable public limit. No special precautions are necessary to protect the public.<sup>1</sup>

The applicant recognizes its responsibility to reduce the transmitter power to a safe level when any work is done on the tower above ground.

#### Required Coverage of the Principal Community

The 48 dB $\mu$  F50/90 contour extends well beyond the principal community of Columbia, MO. This is demonstrated in the attached plot.

---

<sup>1</sup>See 47 CFR 1.1307(b)(3)

### Covered Population

The proposed power increase results in an increase in population count as follows:

Appendix B: 473,216  
Application: 600,366

Both population counts were determined using the same computer program, terrain database and census count in order to have the most valid comparison.

### Allocation Considerations

An outgoing interference analysis using the Techware duplicate of the FCC interference analysis programs shows no interference to any full service or Class A station either before or after the transition.

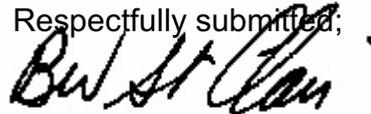
### Protected Installations

There are no FCC monitoring stations or radio astronomy installations within several hundred kilometers. All are beyond the respective culling distances and no notifications are required.

### Consultant's Declaration

This "Engineering Statement" is based on information supplied by the equipment manufacturers, analog record BLCT19930930KR and the applicant. Interference determinations were made using the Techware supplied version of the FCC's OET Bul 69 interference analysis program. The contour plot was prepared using the V-Soft Probe III software which closely duplicates the FCC's results. The results and statements herein are true and correct to the best of my knowledge and belief.

Respectfully submitted;



B. W. St. Clair  
Engineering Consultant  
June 17, 2008