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**Engineering Statement in Support
Of STA Request for KMIZ-DT
Columbia, MO BMPCDT-20080618ACY**

Introduction

This "Application for an STA" requests an ERP of 120kW compared to the 1000kW specified in CP, BMPCDT-20080618ACY. All other parameters remain the same.

Discussion

This application is a request to temporarily operate the station in the final digital configuration but with the lower ERP. The horizontal antenna pattern is omni directional. The vertical pattern is included in application BMPCDT-20080618ACY and is incorporated herein by reference.

Environmental Considerations

The antenna is presently installed and in use by KMIZ analog. No construction is involved in the change to digital operation.

The non-ionizing radiation at ground level, head height, will be less than 0.5% of the public exposure limit. No special precautions are required to protect the public.

Population and Coverage

The population within the noise limited/protected contours are:

KMIZ Analog	450,063
KMIZ Digital "STA"	494,899

Even at the "STA" power level there is greater coverage than provided by the underlying analog station.

As illustrated in the attached plot the required contour level of 48dB μ over the principal community of Columbia, MO is proved by the requested ERP.

Respectfully submitted,

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Engineering Consultant
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