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B. W. St. Clair, Inc.

Engineering Statement
in support of a
Digital Flashcut Application, BLTT-20080714ACN
Channel 51, Joplin, MT
East Butte TV Club

BACKGROUND

The applicant holds a license for the operation of K51KO on channel 51, plus (+) offset, at the present time. Applicant is filing for a construction permit to flash cut to digital operation on the current channel. East Butte TV Club also owns a construction permit for a digital companion on channel 50, K50KY (BDCCDTT20061023AHB), which is co-located with the proposed digital flashcut station. East Butte TV will adjust translator parameters for these two stations to remove any interference should it occur.

The proposed DTV station will have corrected coordinates and the attendant elevation changes as well as a decrease in ERP. All other technical parameters will remain the same. The sum total of all the changes will be less penetration into Canada as shown on the attached exhibit map.

INTERFERENCE CONSIDERATIONS

Channel 51 was analyzed for interference using "Population Loss Studies" based on the "Longley-Rice Terrain Dependent Algorithm" in accordance with OET Bulletin 69.¹ Population loss for full service TV and Class A or analog stations is less than 0.5% and less than 2% for any LPTV or translator DTV station. Cell size for service analysis is 1.0 km/side and distance increments for Longley-Rice Analysis is 1.0 km

FULL SERVICE TV AND DTV STATIONS

None

LPTV STATIONS

None

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¹ The analysis was performed on a Sun "Blade" Computer using the exact replica of the FCC program. Population losses of less than 0.5% are not reported in detail. Only an indication of no interference is shown.