



2355 Ranch Drive, Westminster, CO 80234
Phone: 303-465-5742 ~ Fax: 303-465-4067
E-Mail: StCl@Comcast.Net

B. W. St. Clair, Inc.

Engineering Statement
in support of a
Displacement Application for BLDTT20110301ABU
Channel 27, Tendoy/Leadore, ID
Salmon TV Translator District

BACKGROUND

Applicant is licensed as a digital TV translator on channel 51, K51LR-D. Applicant has been notified by a telephone company, CusterTel, that K51LR should be moved to another channel as they are getting ready to use channel 52. Therefore the applicant is requesting a displacement to channel 27 for its digital operations to continue.

CUSTOM ANTENNA ARRAY

The custom antenna array consists of one PR-TV Paraflector and a pair of Kathrein broadband panel antennas skewed 99.4°.

CANADIAN INTERFERENCE ANALYSIS

Probe4 was used to map the 19.5 dBu interference contour to see if the contour crossed the Canadian border. The 19.5 dBu (F50-10) contour did not cross the Canadian border at any point.

INTERFERENCE CONSIDERATIONS

Interference to the various TV stations was studied using "Population Loss Studies" based on the "Longley-Rice Terrain Dependent Algorithm" in accordance with OET Bulletin 69.¹ Population loss for each station is less than 0.5% for full-service and Class A TV stations and less than 2% for LPTV and translator stations. Cell size for service analysis is 1.0 km/side. The distance increments for Longley-Rice Analysis is 1.0 km. Any discrepancies are noted below.

NONE

Prepared By:
Gordon H. Allison, Jr.
Engineering Consultant
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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.