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B. W. St. Clair, Inc.

Engineering Statement
in support of a
“Replacement Digital Translator” Application
Associated With KRXI-DT Channel 44, Reno, NV
KTVU Partnership

BACKGROUND

The applicant, KTVU Partnership requests a Replacement Digital Translator (RDT) on channel 21 to fill-in coverage areas to the south and northeast of the Reno, NV area where mountains block the DTV signal. KTVU Partnership is planning to locate the RDT on Slide Mountain which is south of and significantly higher in elevation than Peavine. This will supply DTV signals to the Lake Tahoe and Truckee, CA areas that are blocked to the current channel 44 DTV signal.

PROPOSED RULES COMPLIANCE

Attached is a plot showing the FCC Table of Distance 123 km circle. The current signal coverage is calculated and shown in green using the “Longley-Rice Terrain Dependent Algorithm” in accordance with OET Bulletin 69. The “replacement digital translator” is shown with a red color for the FCC 51 dbμ protected contour. Note that the protected contour is completely enclosed within the KRXI-TV’s 123 km radius distance circle¹. Arrows indicate where the fill-in coverage is desired.

There is a possibility that there will be some interference to the lower first adjacent DTV station, KAME-DT channel 20. Therefore, attached is a letter of no objection to the grant of this application by the KAME-DT station ownership, Ellis Communications.

CONCLUSION

The requested translator complies with the special requirement with regard to location and signal reach contained in the NPRM.

ENGINEER’S STATEMENT

This application is based on parameters supplied by the engineering staff of KRXI and KAME, the FCC CDBS database and the digitized 3 second terrain database. The statements herein are true and correct to the best of my knowledge and belief.

Respectfully submitted,

Gordon H. Allison, Jr.
Engineering Consultant
11 March 2009

¹ Notice of Proposed Rulemaking MB Docket No. 08-253, Para. 5 and footnote 5. Footnote 5 refers to Paragraph 27 of the Report and Order in MB Docket No. 05-312 which specifies a radius of 123 km for channel 11 in Zone II.