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B. W. St. Clair, Inc.

Engineering Statement
in support of a
Digital LPTV Application
Channel 45, Thompson Falls, MT
Thompson Falls TV District

BACKGROUND

Thompson Falls TV District is filing an application for a digital translator construction permit on channel 45. Applicant will use an existing communications site and add an antenna to the tower for this new construction. Thompson Falls, MT is well outside of the 75 mile radius drawn on the Spokane, WA market.

The FCC 19.5 dBµ F(50,10) curve was checked to see if it crossed the Canadian border. It did not cross the border. Therefore, no Canadian coordination is required.

INTERFERENCE CONSIDERATIONS

Interference to other 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.

FULL SERVICE TV, DTV & LPTV STATIONS
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.