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B. W. St. Clair, Inc.

Engineering Statement
in support of a
Digital STA Application
Channel 47, Alexandria, MN
Selective TV, Inc.

BACKGROUND

The Applicant, Selective TV, Inc., is applying for a digital STA on channel 47 to cover a displacement construction permit for K60EJ (FID# 59640) which lapsed due to financial problems at that time. This translator will provide programming which was lost to the viewers in the Alexandria, MN area when channels above 51 had to go off-air. The new facilities will use an existing antenna and combiner network. Both the channel 47 (STA) and 48 (K48DV) translators will have the same ERP - 1.05 kW.

INTERFERENCE CONSIDERATIONS

Interference to the following station was studied using "Population Loss Studies" based on the "Longley-Rice Terrain Dependent Algorithm" in accordance with OET Bulletin 69.¹ Population loss for this station is less than 0.5% to all full-service and Class A LPTV stations. For LPTV and LDTV stations, population loss is less than 2%. Cell size for service analysis is 1.0 km/side and distance increments for Longley-Rice Analysis is 1.0 km.

K48DV, BLTTL19930427JE which is owned by the applicant, receives interference to its analog operations. However, Selective TV has made an application numbered - 20120222ABL for flash cutting channel 48 to digital operations. Our analysis was made with the digital parameters for our proposed channel 48 facility. When this was done, the interference dropped below the 2% allowance.

However should any interference occur in practice, Selective TV will make changes to either or both of the stations to resolve the interference problem that may occur.

Prepared By:
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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.