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B. W. St. Clair, Inc.

Engineering Statement
supporting a digital flash cut of a
Licensed Station, BLTT19860224IE
Channel 35, Hawthorne, NV
Ellis Communications

BACKGROUND

The applicant, Broadcast Development Corp., operates K35AX as a translator in Hawthorne, NV at the current time. This application will flash cut the station to digital operation on channel 35. As a part of this application, the latitude and longitude coordinates will change along with the ground elevation. The ERP will decrease and the antenna pattern will not change.

ANTENNA SYSTEM

The antenna system consists of two Scala PR-450CU antennas with an equal power split. One antenna is aimed at 57° True and the other is aimed at 122° True.

INTERFERENCE ANALYSIS

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 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 DTV and Class A Stations & LPTV/Translator Stations
NONE

Gordon H. Allison, Jr.
Engineering Consultant
14 April 2010

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.