



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

***B. W. St. Clair, Inc.***

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**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.<sup>1</sup> 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  
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<sup>1</sup> 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.