

B. W. St. Clair, Inc.

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**Engineering Statement**  
in support of an  
**Flash Cut Application for BMPTTA-20030428AEJ**  
Channel 28, San Francisco, CA  
Family Stations, Inc.

**BACKGROUND**

Applicant has a licensed station, KFTL-CA in San Francisco, CA. Family Stations is applying for a digital flash cut on channel 28, the current broadcast channel. The station's ERP will decrease, but all other parameters will remain the same.

**PART 73 OUTPUT MASK**

The applicant requests that the FCC Part 73 Full Service output channel mask be used in determining the interference to the two adjacent channels.

**INTERFERENCE CONSIDERATIONS**

Potential interference to other stations 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.

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<sup>1</sup> The analysis was performed on a Sun "Blade" Computer using the exact replica of the FCC's analysis program.