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B. W. St. Clair

Engineering Statement
in support of a
CP Modification, BMPTTL-20040811ADC
Channel 51, Chico, CA
Paul Strieby / Matt Tuter

BACKGROUND

Applicant holds a construction permit for KBIT-LP, channel 51, that was granted on 25 October 2006. Longley-Rice studies found that this CP will receive over 90% incoming interference. Even if the applicant filed for a flashcut to channel 51 at the current location, the incoming interference would exceed 50%. The applicant believes that those levels of incoming interference qualify for displacement from channel 51.

Applicant is filing a displacement application to move to channel 50. To avoid interference to the Three Angels B/C's CP for K51ID, channel 51, in Chico, CA (BNPTTL20000831BSU), the same town where applicants CP also covers, the application will specify a move southward to avoid interference. In addition, this application will apply for a flashcut to DTV operation.

INTERFERENCE CONSIDERATIONS

Interference to the following stations was studied using "Population Loss Studies" based on the "Longley-Rice Terrain Algorithm" in accordance with OET Bulletin 69.¹ Population loss for each station is less than 0.5%. Cell size for service analysis is 1.0km/side and distance increments for Longley-Rice Analysis is 1.0km.

Note: The KTEH-DT population calculations had to be done manually since KTEH has more ERP than was allowed in the DTV table of allocations. The additional interference attributed to this applicant is 31,429 pops. When this is divided by 6,466,787, the interference percentage is 0.49%.

FULL SERVICE TV & DTV STATIONS

BLEDT20040826AAR

KTEH-DT, Ch. 50

San Jose, CA

LOW POWER TV STATIONS

None

Prepared By:
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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.