MINOR CHANGE APPLICATION
HILO CHRISTIAN BROADCASTING CORP.
KCIF RADIO STATION
CH 212A - 90.3 MHZ - 5.0 KW
HILO, HAWAII
July 2004

EXHIBIT B

Channel 6 Television Interference Analysis

The proposed KCIF is located within the distance specified in §73.525(a)(1) of the rules as it relates to KLEI, Channel 6, Kailua Kona, Hawaii. KLEI operates with an effective radiated power of 52.5 kilowatts with a height above average terrain of 887 meters. The KLEI site is located at North Latitude 19° 42' 56" and West Longitude 155° 55' 00".

The proposed KCIF facility will operate with a vertically polarized antenna with an effective radiated power of 5.0 kilowatts. The proposed KCIF site is outside the Grade B contour of KLEI. For the purposes of these calculations, no power rating for the use of a vertical only antenna will be made. The 47 dBu (50/50) Grade B contour of KLEI is shown on Exhibit B1. Based on the proposed KCIF channel, the 68.8 dBu (50/10) contour would have to cross the 47 dBu protected contour of the affected TV station for interference to result. As Exhibit B1 shows there is no overlap of contours between KCIF and KLEI. As such, this proposal is in compliance with §73.525 with respect to KLEI.

KLEI
BLCT-19880427KF
Latitude: 19-42-56 N
Longitude: 155-55-00 W
ERP: 52.50 kW
Channel: 06Z
Frequency: 85.0 MHz
AMSL Height: 1760.0 m

Graham Brock, Inc. - Broadcast Technical Consultants

KCIF Proposed
Latitude: 19-38-14 N
Longitude: 155-03-19 W
ERP: 5.00 kW
Channel: 212A
AMSL Height: 162.0 m

KLEI 47 dBu (GRADE B)

KCIF 68.8 dBu (50/10)

Kapaau
Waimea
Honokaa
Paauilo
Laupahoehoe
Puako
Pepeekeo
Papaikou
Hilo
KCIF Proposed
Keaau
Mountain View
Pahoa
Volcano
KLEI
Kailua
Honalo
Captain Cook
Hawaii
Pahala

20-00-00 N
156-00-00 W
55-30-00 W
155-00-00 W
19-30-00 N

Scale 1:750,000
km
0 10 20 30

EXHIBIT B1
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