

Libertad En Cristo Ministries
New NCE Application
FACID # 766517
Ulysses TX

Purpose of Application & Technical Statement

This application for new noncommercial facility is currently listed in mutually exclusive group #102 with 11 other applications across a large geographic area. This application proposes a minor change to eliminate all conflicts with the other application, making it single.

This is not a settlement agreement between parties; this applicant can make this curative amendment and remove itself from the mutually exclusive group without any harm to any other applicant or creating any new conflicts with other applications. The modification simply involves a reduction in Effective Radiated Power to eliminate prohibited overlap.

Contour Protection

As noted on the attached map of contours, the minor change proposed herein meets all co-channel, first, second and third adjacent protection in the current allocation landscape and with all other pending NCE applications.

TV Channel 6 Compliance

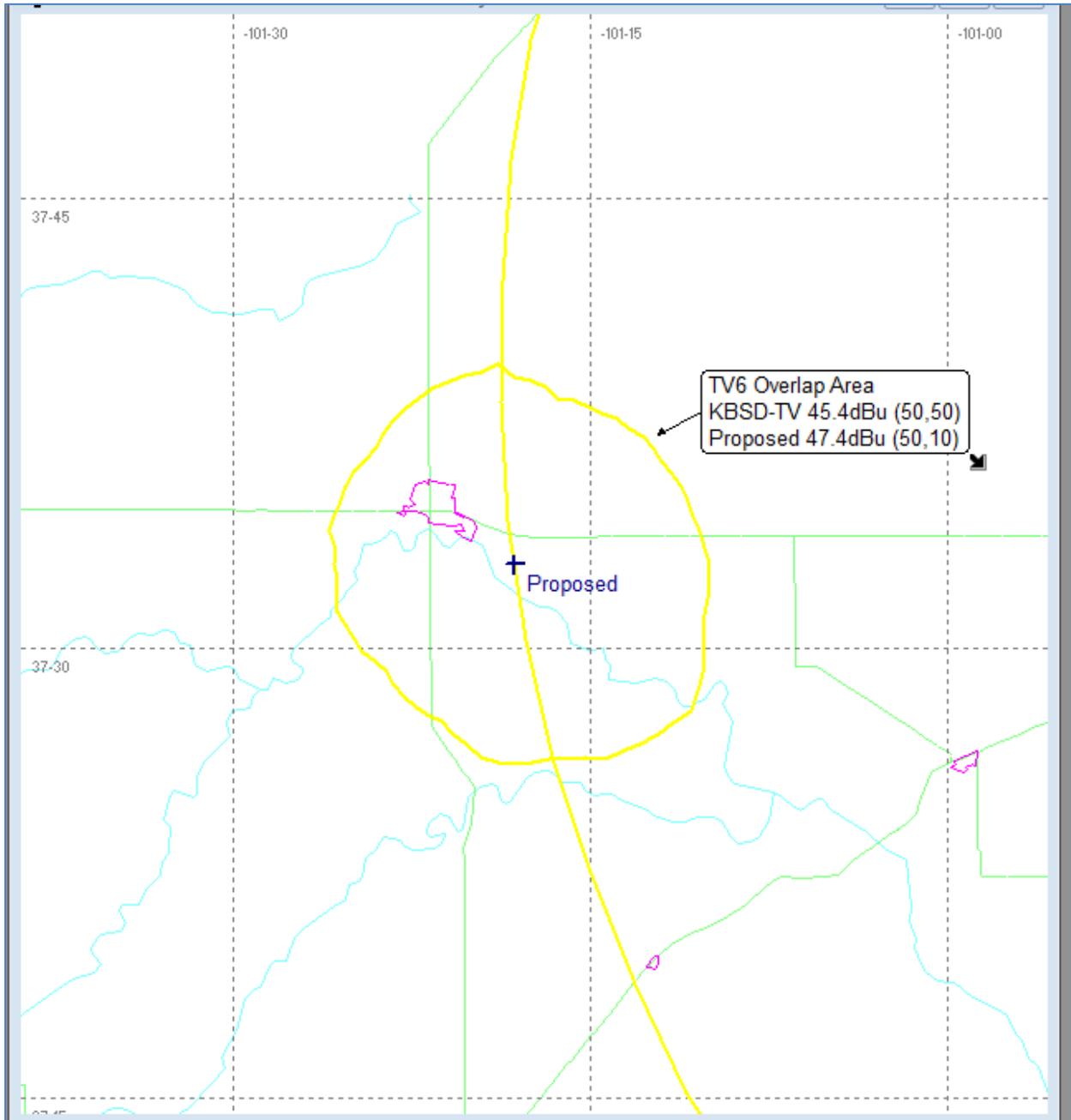
Section 73.525 of the commission's rules and regulations has been studied and it is believed that the proposed facility will provide full protection to channel 6 television as outlined in the rule section. There is one channel 6 TV facility considered, KBSD-TV, Ensign KS as it is the only full service TV 6 facility located within 225 km of the proposed Ch 201 operation [73.525(a) (1)].

The proposed Ch 201 transmitter site is located outside the Grade B, 47 dBu (50,50) KBSD-TV contour based on the notified radiation center and ERP with terrain data derived from the FCC's 30 second database. The signal of KBSD at the proposed location is 45.4 dBu (50,50). The required dB offset is +2.0 as determined from FCC Section 73.599, figure 1, attached. Based on these computations, the proposed Ch 201 TV 6 interfering contour is $45.4 \text{ dBu} + 2.0 \text{ dB} = 47.4 \text{ dBu}$ (50,10).

The applicant has elected to propose vertical only polarization in accordance with section 73.525(e)(4)(i). Accordingly, as the predicted area of interference lies outside the limits of a city of 50,000 persons, the proposed ERP has been divided by 40 or decreased by 16 dB, with a resulting ERP for TV 6 interference calculation purposes of 0.025 kw (25 watts).

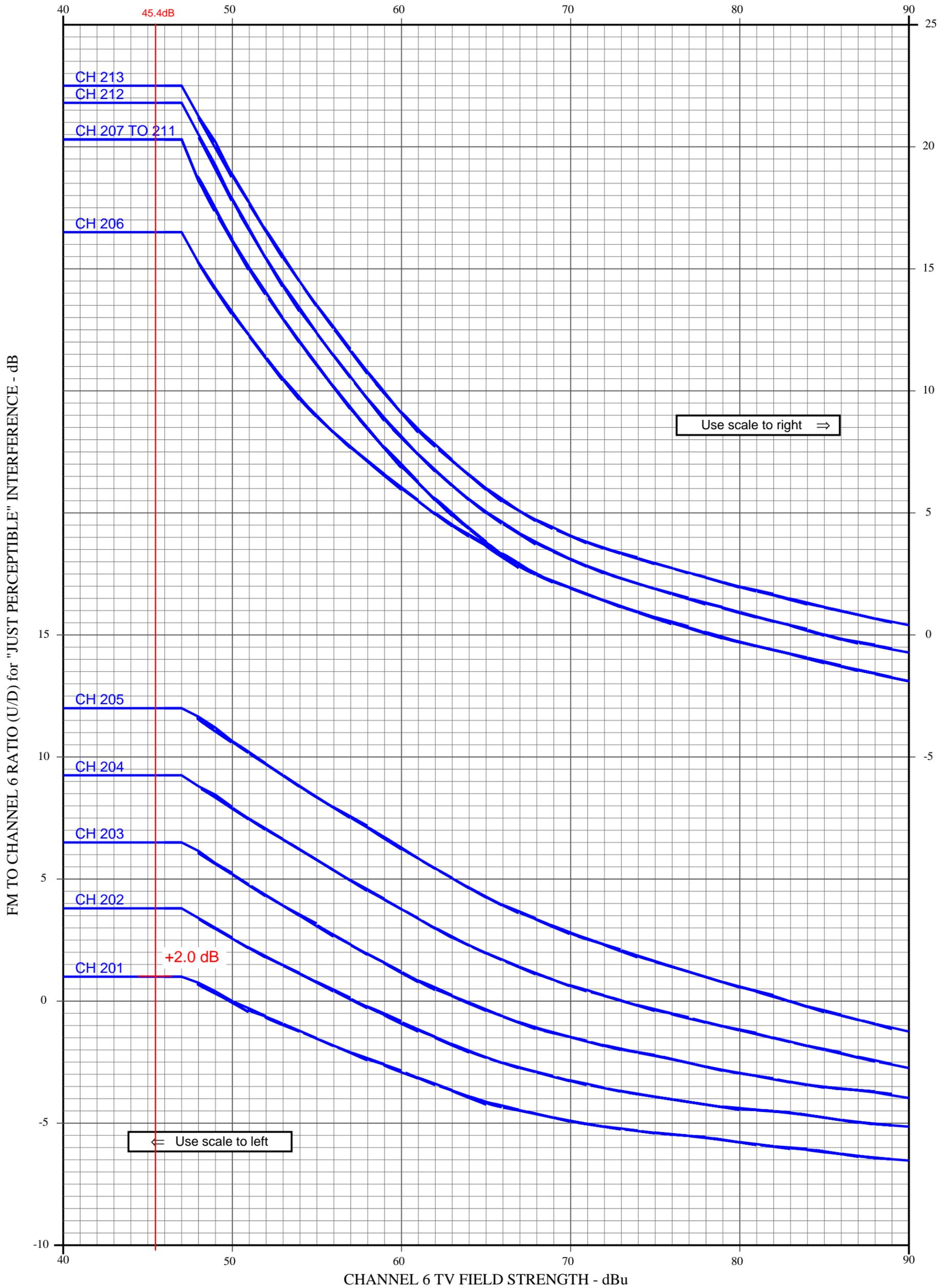
The map of contours below utilizes FCC 30 Second Terrain data and 36 evenly spaced radials, is an accurate depiction of the proposed Ch 201 47.4 dBu (50,10) interfering contour and the KBSD TV6, 45.4 dBu (50,50) Grade B coverage contour. The Census 2010 population in the area of this interfering contour is 237 persons and comprises an area of 161 sq km.

Based on the above analysis, and the fact that less than 3,000 persons reside in the predicted area of interference, it is believed that compliance with section 73.525 of the rules with respect to TV6 has been satisfied.



47 CFR Section 73.599, Figure 1
 FM Channels 201 - 213
 FM /TV 6 Protection Ratios Based on Median Receivers

CHANNEL 6 TV FIELD STRENGTH - dBu



NOTE: Assume that the TV field strength is a constant 90 dBu at all locations within the 90 dBu TV contour.