

GREAT PLAINS CHRISTIAN RADIO, INC  
New NCE Application  
FACID #764006  
Perryton TX

This application for new noncommercial facility was originally filed as LMS 0000165754 and is one of 17 applications in MX Group #102. This application proposes a minor change to eliminate all conflicts making it grantable. This is not a settlement agreement, and this applicant can make this technical modification with no conflict to other applicants or any other facility in the allocation landscape.

**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.

The applicant proposes to remain on 203 with a modified antenna and a reduced effective radiated power at the site originally proposed. The proposed 60dBu (50,50) contour is fully overlapped by the original contour. This is a minor change, on-channel modification, meets the objectives of the Commission in the advancement of non-commercial educational stations and maximizes the efficient utilization of reserved band spectrum.

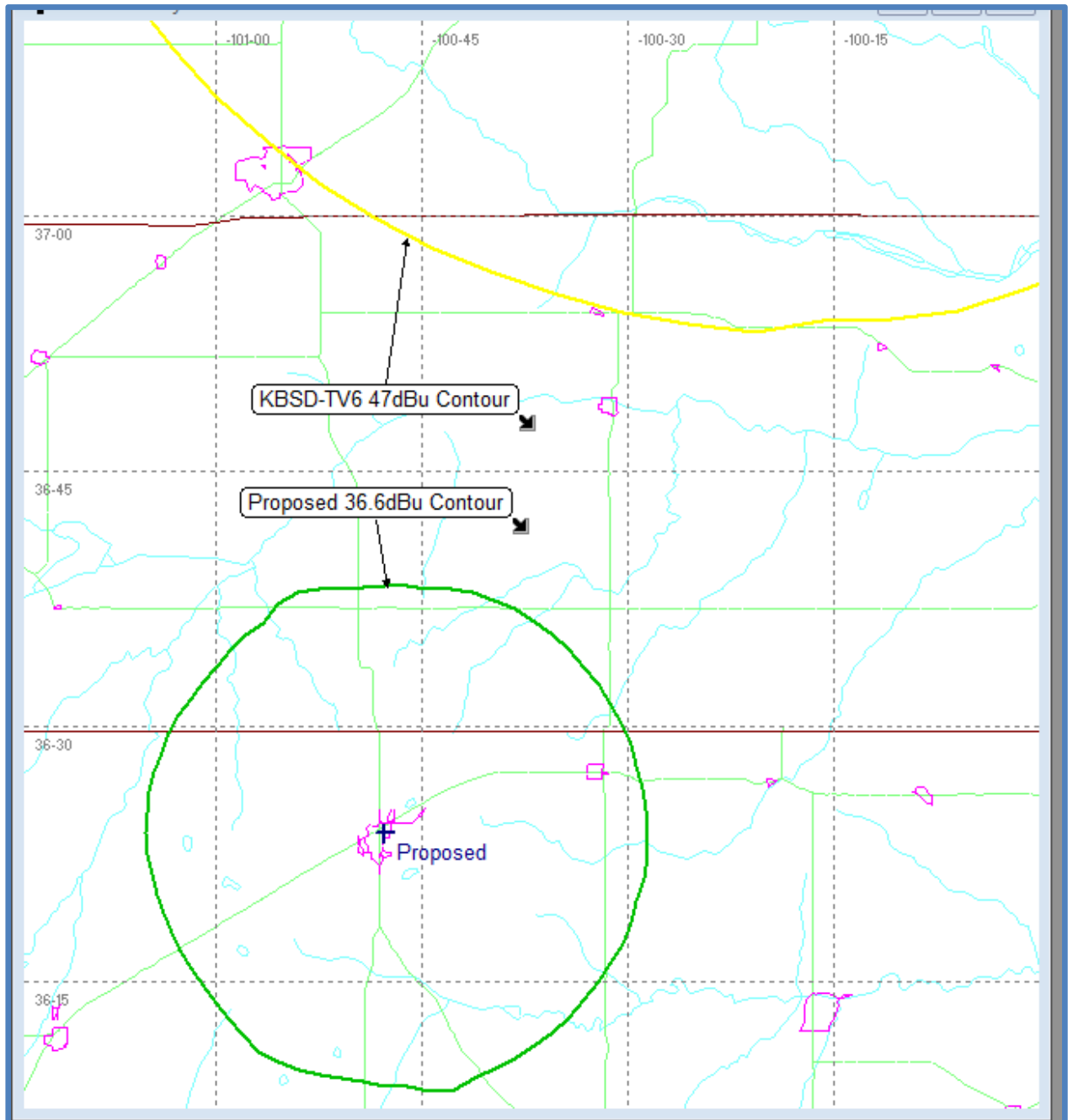
**TV Channel 6 Compliance**

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. The closest channel 6 TV facility within 246 km of the proposed Ch 203 operation [73.525(a) (1)] is KBSD-TV Ensign KS located 144km away. The signal of KBSD-TV at the proposed location is 27.4dBu (50,50). As the KBSD-TV signal is below 40dBu, the minimum offset is +9.2dB or a corresponding Proposed contour of 36.6dBu.

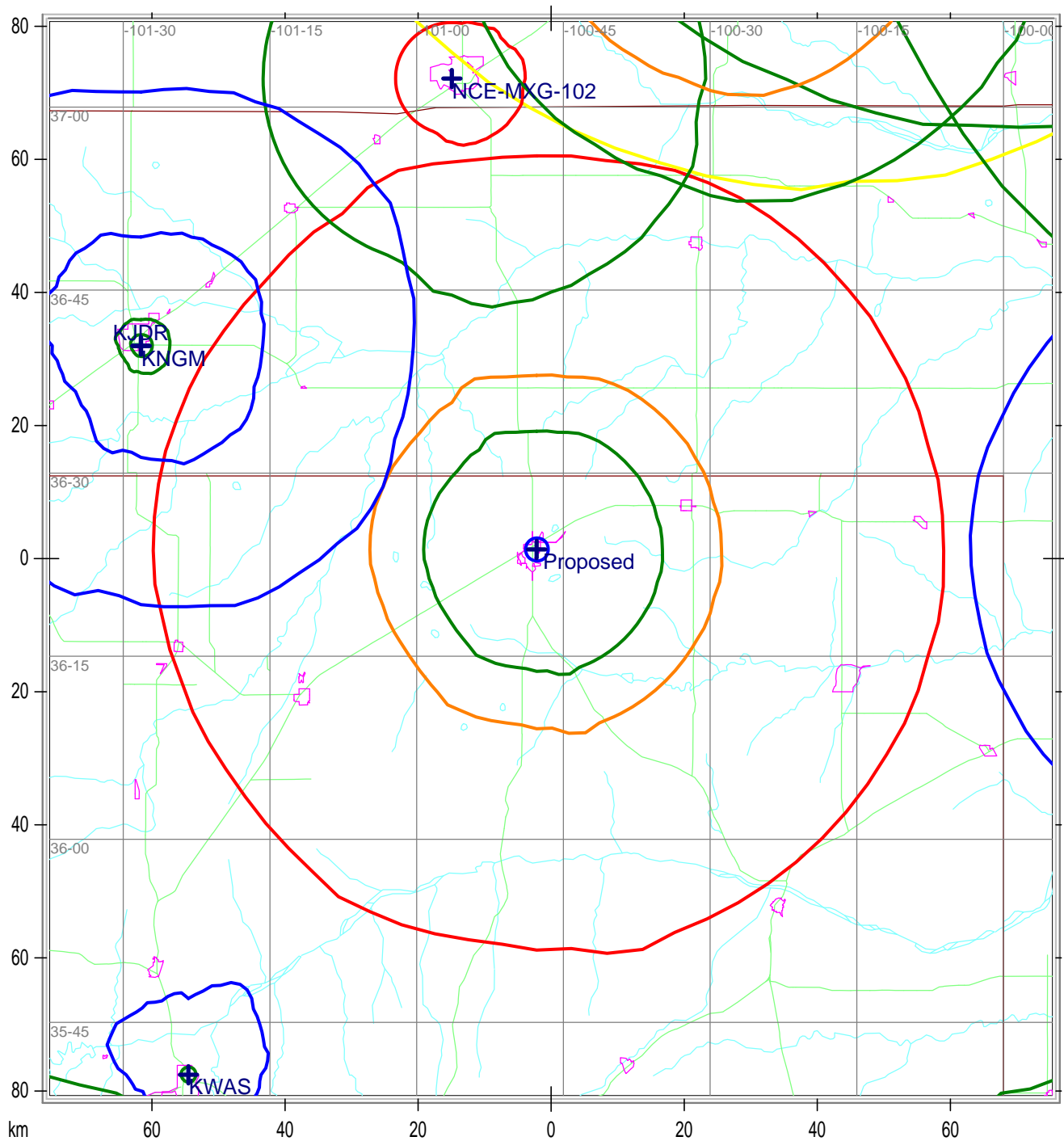
The applicant has elected to propose vertical only polarization in accordance with section 73.525(e)(4)(i). Accordingly, as the predicted area of interference lies outside the limits of a city of 50,000 persons, the proposed ERP has been divided by 40 or decreased by 16 dB, with a resulting ERP for TV 6 interference calculation purposes of 0.03 kw (30 watts).

The map of contours below utilizes FCC 30 Second Terrain data and 72 evenly spaced radials, is an accurate depiction of the proposed Ch 203 36.6 dBu (50,10) interfering contour and the KBSD TV6, 47.0 dBu (50,50) Grade B coverage contour. There is no overlap between these contours.

Based on the above analysis it is believed that compliance with section 73.525 of the rules with respect to TV6 has been satisfied.



## Map of Interfering Contours



### Proposed Facility:

Blue - 100dBu(50,10)

Green - 60dBu(50,50)

Orange - 54dBu(50,10)

Red - 40dBu (50,10)

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### Other Facilities

Co-Channel

Red - 60dBu (50,50) Green - 40dBu (50,10)

First Adjacent

Orange - 60dBu (50,50) Green - 54dBu (50,10)

Second/Third Adjacent

Blue - 60dBu (50,50) Green - 100dBu (50,10)

I.F. Separation - Brown

Lat/Lon Grid

### Data Source & Methodology

All contour and population calculations are performed using ComStudy 30 Sec FCC Terrain and US Census 2010 Block data underlay.