

Kanza Society, Inc.
Amendment to Application for New NCE Broadcast Station
BNPED - 20071018BDH
Guymon, OK, CH 220, CLASS A
FCC Form 340
January 3, 2008

EXHIBIT 15: Interference Compliance

Documentation for Form 340, Section VII, Item 15

15a. Proposed station parameters

This application proposes a new noncommercial educational FM broadcast station operating on the following technical parameters

Channel	220
Coordinates (NAD 27)	N 36° 42' 43.0" W 101° 27' 27.0"
ERP	.200 kw (200 watts)
Class	A
Elevation of site AMSL	928 meters
Overall tower height AGL	128 meters
Height of radiation center AGL	48 meters
Height of radiation center AMSL	976 meters
Height of radiation center above average terrain	40.2 meters ¹
Directional antenna	Yes

15b. Studies conducted to ensure interference compliance

Studies have been conducted and documentation has been provided to establish that the proposed facility complies with the Commission's spacing, contour overlap, and interference protection provisions in each of the applicable areas of Section VII, Item 15 as summarized below:

Section	Applicability/Certification	Supporting Exhibit No.
73.509 – Overlap	Applicable. Through use of a directional antenna the proposed station complies with the Commission's provisions	Exhibit 16

¹ Calculated using Dataworld's TERP program with 360 evenly spaced radials and using the USGS 3-second Database.

Section	Applicability/Certification	Supporting Exhibit No.
	regarding prohibited overlap of contours with other U.S. stations for a full service station operating on a channel in the range from Channel 201 through 220. This lack of prohibited overlap was established by a complete allocation study provided in Exhibit 16 of this application.	
Section 73.316 – FM antenna systems	The directional antenna proposed has a maximum radial ERP of 200 watts and a minimum ERP radial of 7 watts. The maximum to minimum ratio is 14.6 dB which is less than the 15 dB maximum specified in Section 73.316 (b) (1)	-
Section 73.207 - Spacing Requirements.	Applicable in regard to operation on channel 218, 219, or 220: Because the station proposes operation on CH 220, a complete spacing study was conducted which determined that the proposed operation satisfies the requirements of Section 73.207 as documented in an Exhibit to this application.	Exhibit 16
	Applicable in regard to operation on a channel 53 or 54 channels removed from a channel between 221 and 300. To insure compliance with IF protection requirements, a complete spacing study was conducted which determined that the proposed operation satisfies the requirements of Section 73.207 as documented Exhibit 16 of this application.	Exhibit 16
Section 73.213(a) - Grandfathered Short-Spaced.	Not applicable.	Na
73.215(a) - Contour Protection for short spaced assignments	Not applicable	Na
Section 73.525 – TV Channel 6 Protection	Applicable. Channel 6 station KBSD-TV is located 142.9 km from the transmitter site of the proposed station. This distance is short by 11.1 km of the required distance of 154 km specified in Tale A of Sec. 73.525 for a station operating on CH 220. Therefore a Channel 6 interference study has been conducted which establishes that no prohibited interference will occur as detailed in Exhibit 19. <i>(See the note at the end of this exhibit for additional CH 6 protection considerations.)</i>	Exhibit 19

Note on additional CH 6 protection considerations:

The applicant is aware that the FCC's final DTV Table of Allotments from August 6, 2007 includes a CH6 allotment for Ensign, Kansas (the same site as KBSD-TV, the station identified above as within the 154 km zone for CH 220). As of the preparation of this to the application, no filing or authorization had been made for this allotment. Given this situation and the lack of exact facility specifications to consider in conducting interference studies (coordinates, ERP and HAAT), protection for this allotment has not been included in this application. *Should the FCC staff determine that this CH 6 allotment must be protected, the applicant will readily conduct additional analysis and amend this application if and as necessary to ensure such protection.*