

Kanza Society, Inc.
Application for New Noncommercial Educational Broadcast Station
Dalhart, TX, CH 207, CLASS A
FCC Form 340
October 12, 2007

EXHIBIT 15: Interference Compliance

Documentation for Form 340, Section VII, Item 15

This Exhibit is in three sections:

Section	Page
15a. Proposed station parameters	1
15b. Map of Proposed station 70 dBuV/m and 60 dBuV/m (50,50) contours	2
15c. Studies conducted to ensure interference compliance	3

15a. Proposed station parameters

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

Channel	207
Coordinates (NAD 27)	36 - 06 - 35 N Latitude 102 - 30 - 30.9 W Longitude
ERP	.5 kw (500 watts)
Class	A
Elevation of site AMSL	1,219
Overall tower height AGL	122
Height of radiation center AGL	107
Height of radiation center AMSL	1,326
Height of radiation center above average terrain	104 ¹
Directional antenna	No

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

Proposed Dalhart, TX Ch. 207 A

Prepared by



TEXAS

DALLAM COUNTY

60 dBuV/m (50,50)

70 dBuV/m (50,50)

Proposed FM Site

Dalhart

Lake Rita Blanca

HARTLEY COUNTY

+ Proposed FM 207A Transmitter Site:
N 36-06-35 W 102-30-30.9
AMSL = 1326 Meters ERP = .5 kW
Scale = 1:450,000 October 8, 2007



15c. 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. The proposed station complies with the Commission's provisions 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	Exhibit 16
Section 73.207 - Spacing Requirements.	Not Applicable in regard to operation on channel 218, 219, or 220:	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	Not applicable. The nearest existing or authorized TV Channel 6 station (KSBD-TV) is located 257.1 km from the transmitter site of the proposed station. This distance provides a separation margin of 61.1 km from the required distance of 196 km for a station operating on CH 207. <i>(See note below for additional explanation.)</i>	Na

Additional note on CH 6 interference:

One additional record was found in the FCC database in the search of CH 6 facilities within 196 km of the Proposed Station. (See the listing below). However, no further record of this DTV PRM could be found in a search of the CDBS or ECFS databases. Nor could the allocation be found in the FCC's August 6, 2007 press release announcing the final DTV Table of Allotments. The preliminary study based on eight standard radials indicates that no prohibited interference or overlap would occur with this facility. Should the Commission staff conclude that this facility warrants protection and further detailed study, the applicant will amend this application to include additional studies to address such requirements.

Call	Auth	Licensee name	Chan	HAAT(m)	ERP (kw)	Latitude	Bearing-to	Distance-actual (km)	73.525 Table A distance-(km)	Table A Clearance (km)
City of Lic.	St	FCC File Number	Freq	HAMSL(m)		Longitude	Bearing-from			
NEW	APP	SIERRA GRANDE BROADCASTING	6 II	Assumed HAAT: 300 m	Assumed ERP: 100 kW	N 36° 45' 48.0"	301.2	142.0	196	-54
			82			W 103° 52' 12.0"	120.4			

Proposed Channel 207 A 67.25 dBuV/m F(50,10) Interfering contour = 10.4 km

NEW Channel 6 2 47 dBuV/m F(50,50) Service contour = 103.6 km

Clearance: 28.04

Source: Dataworld FM Interference Study, Sunday, October 07, 2007

Database: FCC 10/5/2007 12:00:00 AM

Terrain from USGS 3-second Database