

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 19: Television Channel 6 Protection (Section 73.525)

Response to Form 340, Section VII - FM Engineering, Item 15.e.

To ensure compliance with Channel 6 Protection requirements, a general Channel 6 interference study was conducted to identify any Channel 6 station within a 154 km radius of the proposed station in accordance with the distance show in Table A of Section 73.525 for NCE Channel 220. One such station was identified.

Call	Auth	Licensee name	Chan	HAAT(m)	ERP (kw)	Latitude	Bearing-to	Distance-actual (km)	Distance-required (km)	Clearance (km)
City of Lic.	St	FCC File Number	Freq	HAMSL(m)		Longitude	Bearing-from			
KBSD-TV	LIC	SUNFLOWER BROADCASTING, INC.	6 II	219.0	100	N 37° 38' 28.0"	43.3	142.9	174	-31.1
ENSIGN	KS	BMLCT-20040826AAG	82	1046.0		W 100° 20' 39.0"	224.0			

See note in Exhibit 15 regarding the CH 6 DTV allotment for Ensign, KS

Source: Dataworld FM Interference Study, January 1, 2008; Database: FCC 12/31/2007 12:00:00 AM

A detailed CH 6 interference was then conducted along each of 360 radials that established that there was no Grade B contour overlap with KBSD-TV and no prohibited interference by the Proposed station. Though a directional antenna is proposed, the maximum radial ERP of .2 kw was used for all radials to simplify the study while ensuring a worst-case view.

BIAfn/Dataworld FM/TV Channel 6 Study

Study parameters:

Channel: 220

FM site coordinates: N 36° 42' 43.0" W 101° 27' 27.0"

FM c/r Height = 976.0 m (3202.1 ft) AMSL

FM ERP = 0.2000 kW

* = 6 dB TV Receiving Antenna Directivity Applied.

Channel 6 Stations within 154.0 km will be examined

Terrain from USGS 3-second Database

Wednesday, January 02, 2008

Study results:

TV Station: KBSD-TV Ensign, KS (Lic)

Distance from TV6 transmitter to FM transmitter: 142.8599 km; Bearing from TV6 to FM: 224.0

TV HAAT toward FM: 199.9 m; TV ERP toward FM: 100.000 kW; Distance to Grade B (47

dBuV/m) Contour: 94.1 km

FM Station on Channel 220; HAAT toward TV: 53.7 m; ERP toward TV: 0.200 kW; Distance to 92.0 dBuV/m [50,10] Contour = 1.5 km

No Grade B contour overlap - no Interference Study required

A clearance of 47.3 km exists between the KBSD-TV Grade B contour (47 dBuV/m extending 94.1 km) and the Proposed interfering contour (92.0 dBuV/m (50,10) extending 1.5 km), given the separation between the stations of 142.9 km.