

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 10: First Noncommercial Service

*Documentation for Form 340, Section III, Item 1*

First noncommercial educational aural service will be provided to 8,987 people by the proposed station, an amount that is 100% of the total population within the proposed station's 60 dBu (1 m/Vm) service contour and greater than 2,000 people. This application therefore meets the minimum requirements for Fair Distribution of Service consideration for first service.

This population calculation is based on the following analysis:

- |   |       |
|---|-------|
| 1. Total population within the 60 dBu (1 m/Vm) service contour of the proposed facility   | 8,987 |
| 2. Existing NCE stations studied within 120 km <sup>1</sup> of the proposed station that could already be providing NCE aural service to the population within the 60 dBuV/m service contour of the proposed station and the portion of that population already covered by the existing station (if any). |       |
| Station, City of License of station's providing service:  |       |
| - KPSU, Goodwell, OK (alone)  | (0)   |
| - KTOT, Spearman, TX OK (alone)   | (0)   |
| 3. The number of people within the radio station's 60 dBu (1 m/Vm) service contour who will receive a first NCE aural service from the proposed facility:   | 8,987 |

### b. Population study for the Proposed station

The total population count of 8,987 within the 60 dBuV/m of the Proposed station is measured in accordance with the standard predicted contours in 47 C.F.R. Section 73.713(c) and based on the 2000 census block data from the United States Bureau of Census using the centroid method. This population was calculated using Dataworld's

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<sup>1</sup> This search distance is based on taking the reference contour of a Class C station (92 km) and the reference contour for a Class A station (28 km) as the greatest probable distance from which stations with potential overlap could exist. This search included FM stations operating on reserved channels 201-220 and FM stations operating on channel 221-300 on allocations that have been reserved for noncommercial use. The search was made using the FCC's web-based "Stations Within a Radius" search feature with the Proposed station's longitude and latitude as the reference coordinates.

TERP (terrain retrieval), Contours, and POPCOUNT programs. Details of the studies are provided below:

### Dataworld Terrain Elevation Retrieval Program

#### Study parameters:

Coordinates: N 36° 42' 43.0"  
W 101° 27' 27.0"

Bearing(s) selected: 360 evenly spaced

Terrain will be averaged from 3.0 to 16.0 kilometers. (FM)

Center of radiation above mean sea level: 976.0 m (3202.1 ft)

Terrain Averages from USGS 3-second Database

Date: January 01, 2008

### Dataworld TV/FM Contour Program

#### Study parameters:

Channel: 220

Bearing(s) selected: 360 evenly spaced

Contour value(s): 60 dBuV/m

Contour type: F(50,50)

Maximum ERP: 0.2 kw

Directional Antenna: User-defined

0,1.000|10,1.000|20,1.000|30,1.000|40,1.000|50,1.000|60,1.000|70,1.000|80,1.000|90,1.000|100,1.000|  
110,1.000|120,1.000|130,1.000|140,1.000|150,1.000|160,1.000|170,1.000|180,1.000|190,1.000|  
200,0.791|210,0.612|214,0.400|220,0.300|230,0.300|240,0.283|250,0.283|260,0.255|265,0.187|  
270,0.187|280,0.187|290,0.224|300,0.224|310,0.224|320,0.283|330,0.367|340,0.628|350,0.791 @ 0.0°

Service contour based on FCC F(50, 50) curves

### Dataworld POPCOUNT (population within coverage area) Program Results

Place name	Population	Housing Units
census undesignated area (2000 Census SF1)	517	195
Guymon city (2000 Census SF1)	8,348	3,009
Optima town (2000 Census SF1)	122	43
Texas County (2000 Census SF1)	8,987	3,247
<b>State of Oklahoma (2000 Census SF1)</b>	<b>8,987</b>	<b>3,247</b>
<b>Total (2000 Census SF1)</b>	<b>8,987</b>	<b>3,247</b>
<b>Popcount area 158.3915 square km</b>		