

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

## **EXHIBIT IV-4: Technical Parameters (population and area)**

*Documentation for Form 340, Section IV, Item 4*

### **a. New area served**

This application would serve an area of **779.7** square kilometers with a 60 dBuV/m signal measured in accordance with the standard predicted contours in 47 C.F.R. Section 73.713(c). This area was calculated using Dataworld's TERP (terrain retrieval), Contours, and POPCOUNT programs. Details of the studies are provided below

### **b. New population served**

This application would serve a population of **9,260** persons with a 60 dBuV/m signal 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 TERP (terrain retrieval), Contours, and POPCOUNT programs. Details of the studies are provided below

### **Dataworld Terrain Elevation Retrieval Program**

#### **Study parameters:**

Coordinates: N 36° 06' 35.0"  
W 102° 30' 30.9"  
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: 1326.0 m (4350.4 ft)  
Terrain Averages from USGS 3-second Database  
Sunday, October 07, 2007

### **Dataworld TV/FM Contour Program**

#### **Study parameters:**

Channel: 207  
Bearing(s) selected: 360 evenly spaced  
Contour value(s): 60 dBuV/m  
Contour type: F(50,50)  
Maximum ERP: 0.5  
Directional Antenna: Omni-directional  
Service contour based on FCC F(50, 50) curves  
Sunday, October 07, 2007

**Dataworld POPCOUNT (Population within coverage area) Program Results:**

| <b>Place name</b>                          | <b>Population</b> | <b>Housing Units</b> |
|--|-------------------|----------------------|
| census undesignated area (2000 Census SF1) | 325               | 132                  |
| Dalhart city (2000 Census SF1)             | 4,648             | 2,016                |
| Dallam County (2000 Census SF1)            | 4,973             | 2,148                |
| census undesignated area (2000 Census SF1) | 1,698             | 141                  |
| Dalhart city (2000 Census SF1)             | 2,589             | 1,080                |
| Hartley County (2000 Census SF1)           | 4,287             | 1,221                |
| <b>State of Texas (2000 Census SF1)</b>    | <b>9,260</b>      | <b>3,369</b>         |
| <b>Total (2000 Census SF1)</b>             | <b>9,260</b>      | <b>3,369</b>         |

|   |
|---|
| <b>Popcount area 779.7081 square km</b> |
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