

Exhibit 22 - Statement A  
**PRINCIPAL COMMUNITY COVERAGE**  
prepared for  
**Woodville Communications, Inc.**  
WKEP(FM) Woodville, Florida  
Facility ID 89051  
Ch. 250A 6 kW 95 m

*Woodville Communications, Inc.* (“*Woodville*”) is the permittee of WKEP(FM) as authorized in the Construction Permit (“CP”) (BPH-19971030MH). The CP authorizes operation on Channel 250A with an effective radiated power (“ERP”) of 6 kW and a height above average terrain (“HAAT”) of 100 meters. *Woodville* herein proposes to modify the WKEP(FM) CP to change the transmitter location and reduce the antenna HAAT to 95 meters. No change to the authorized ERP of 6 kW is proposed. The new site complies with the minimum distance separation requirements of §73.207 of the FCC Rules.

§73.315(a) of the FCC Rules requires that a minimum field strength of 70 dB $\mu$  (3.16 mV/m) be provided over the entire principal community to be served. For the case at hand, when the “traditional” F(50,50) prediction methods of §73.313 of the Rules are employed, the 70 dB $\mu$  standard contour as shown on the coverage map, **Figure 1**, suggests that the unincorporated community of Woodville<sup>1</sup> would not be properly served by the instant proposal. However, as demonstrated herein, when a traditionally accepted alternative method is employed, sufficient 70 dB $\mu$  coverage is achieved over Woodville, Florida. Woodville is within the standard FCC 60 dB $\mu$  contour.

#### **“FCC” Method**

The standard prediction method described in §73.313 of the FCC Rules was employed to develop the locations of the 70 dB $\mu$  F(50,50) contour shown on the map of **Figure 1**. Average terrain elevation data were derived from a linearly interpolated 3-arc second digitized terrain database.

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<sup>1</sup>The boundaries of Woodville, Florida, as depicted in **Figure 1**, were determined using 2000 Census Designated Place (CDP) boundaries. Commission Staff has stated that CDP boundaries are acceptable for determining compliance with §73.315 of the Rules.

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## **Prediction Methods**

It is ordinarily required that coverage of an FM station be predicted using the methods outlined in §73.313(c) of the FCC Rules. However, §73.313(e) also permits the use of a supplemental showing concerning calculation of the contours by other means. It is well known that the FCC method of computing contours does not accurately predict the coverage actually achieved by FM stations in every circumstance, hence the use of a more precise propagation model may be warranted in certain circumstances.

## **Terrain Along Path From Proposed Transmitter Site to the Principal Community**

The proposed WKEP(FM) transmitter site is situated 15.5 kilometers northeast of Woodville, Florida. The terrain in the region between the proposed transmitter site and Woodville is very flat (see terrain profiles **Figures 2** through **2D**). There are no terrain obstructions in the path between the transmitter site and Woodville CDP boundaries. From this and as described below, it was determined that the terrain departs widely<sup>2</sup> from the assumed 50 meter terrain roughness (Delta-H) factor employed in the standard FCC Curves for predicting the 70 dB $\mu$  contour.

Radials were drawn over the arc from the proposed transmitter site through and adjacent to Woodville (between 230° and 257° True). 3-Arc second digitized terrain data was then used to derive elevation points every tenth of a kilometer between the 40 km radial segment between 10 km and 50 km from the transmitter. Also, a second group of segments was determined at tenth of a kilometer increments between 10 km and the “contour of interest” as determined by the alternate propagation method. The top 10 percent and bottom 10 percent of the data points were eliminated from the results. The difference between the highest remaining point and the lowest remaining point was determined. The results are tabulated in **Table I**<sup>3</sup>. As shown in **Table I**, the calculated Delta-H is 20 meters or less. Therefore it is believed that the instant application

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<sup>2</sup>Recent FCC policy has defined terrain that “departs widely” to include a Delta-H of 20 meters or less, or a Delta-H of 100 meters or greater.

<sup>3</sup>Additional details of the calculations can be made available upon request.

conforms to the guidelines for using a “supplemental method” to determine distances to the Principal Community contour.

### **Supplemental Method - Assumptions and Calculations Employed**

Since the use of a “supplemental method” is appropriate in this instance, the long-accepted Longley-Rice propagation model was employed to determine the location of the predicted 70 dB $\mu$  contour for WKEP(FM). The computer program input data includes a time variability of 50%, a situation variability of 50%, horizontal polarization, 0.005 S/m conductivity, a climate constant of 15, an assumption of “continental temperate” climate zone, a receive antenna height of 10 meters, a terrain profile step size of 0.1 km and a grid cell size of 0.1 km, with ground level elevations generated from USGS/DMA 3-arc second terrain data. This choice of options matches as closely as possible the functions used by the standard FCC propagation curves. Input data also included the pertinent data for the proposed WKEP(FM) facility: North Latitude, 30° 22' 09"; West Longitude, 84° 06' 00" (NAD-27); radiation center, 113.9 m above mean sea level (“AMSL”); and frequency of 97.9 MHz. Detailed sample calculations have not been included, as the method employed (Longley-Rice) has been accepted by the Commission in the past for similar studies, and the computer program employed is not equipped to provide such sample calculations. Nonetheless, calculations performed are discussed in National Bureau of Standards “*Technical Note 101*” by P. L. Rice, A. G. Longley, A. Norton, and A. P. Barsis. Additional information can be found in the 1995 booklet released by the National Telecommunications and Information Administration (“NTIA”): George Hufford, *The ITS Irregular Terrain Model, version 1.2.2 - The Algorithm*, and the associated booklet - *The Irregular Terrain Model*, January 26, 1999. Copies of these NTIA public documents will be made available to the Commission Staff upon request. Since the Commission has accepted and even adopted the Longley-Rice Model for a variety of purposes where terrain conditions deviate significantly from those considered in the FCC Curves, it is believed appropriate for use in this instance.

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## **Analysis of results**

The Longley-Rice program provides an output listing the predicted field strength at tenth of a kilometer increments along selected radial bearings. For this study, radials were chosen at 1 degree increments over Woodville (230° to 257°T). This data is provided in **Table II**<sup>4</sup>. The location of the 3.16 mV/m (70 dBμ) contour can easily be determined by inspection as the last distance where the signal strength is above 70 dBμ. Comparison of the Principal Community contour distances determined by the FCC standard method and with the Longley-Rice prediction method is provided in **Table III**. As shown, the Longley-Rice predicted 70 dBμ contour distance is more than 50% greater than that predicted by the FCC Curves, far in excess of the 10% increase required by FCC policy.

## **Predicted Coverage**

The coverage map (**Figure 1**) depicts the 3.16 mV/m (70 dBμ) and 1 mV/m (60 dBμ) contours of the proposed Woodville facility predicted by the “standard” FCC method (using radials spaced at 1° increments). Depicted in blue is the Longley-Rice predicted 70 dBμ contour for the radials over Woodville, Florida. It is believed that this map, and the supporting data provided herein, demonstrates compliance with the requirements of §73.313(e) of the FCC Rules. As shown, the “standard” FCC method predicts a contour which does not entirely enclose the “Census Designated Place” boundaries of the unincorporated community of Woodville. However, because of the very flat terrain in the region, the Longley-Rice prediction method is believed to more accurately depict the actual 70 dBμ contour location, which encompasses the entire boundaries of Woodville. As shown in **Figure 1** and **Table III**, a signal strength in excess of 70 dBμ is predicted to exist over the entire unincorporated community of Woodville. Also, the 70 dBμ contour distances determined by the supplemental propagation method exceeds the contour distances determined by the FCC’s standard method by more than 10%. Therefore,

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<sup>4</sup>Table II provides a tabulation of signal levels and corresponding distances where pertinent to derive the distance to the 70 dBμ contour (Longley-Rice). Signal levels in excess of 70 dBμ that occur between the transmitter site to the data points shown in the tables have been eliminated for clarity to shorten the size of the table. Complete tables can be provided upon request.

Exhibit 22 - Statement A

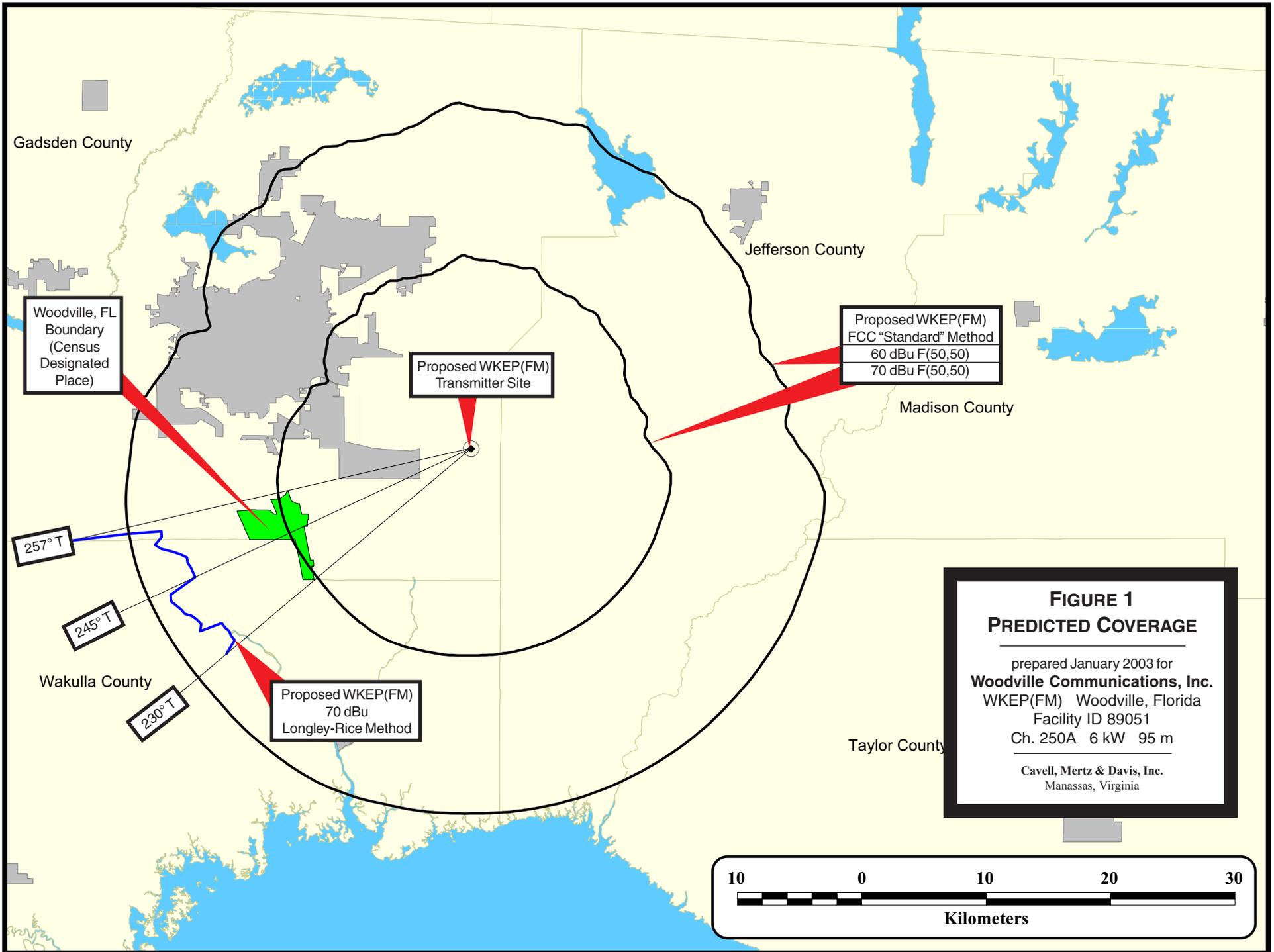
(Page 5 of 5)

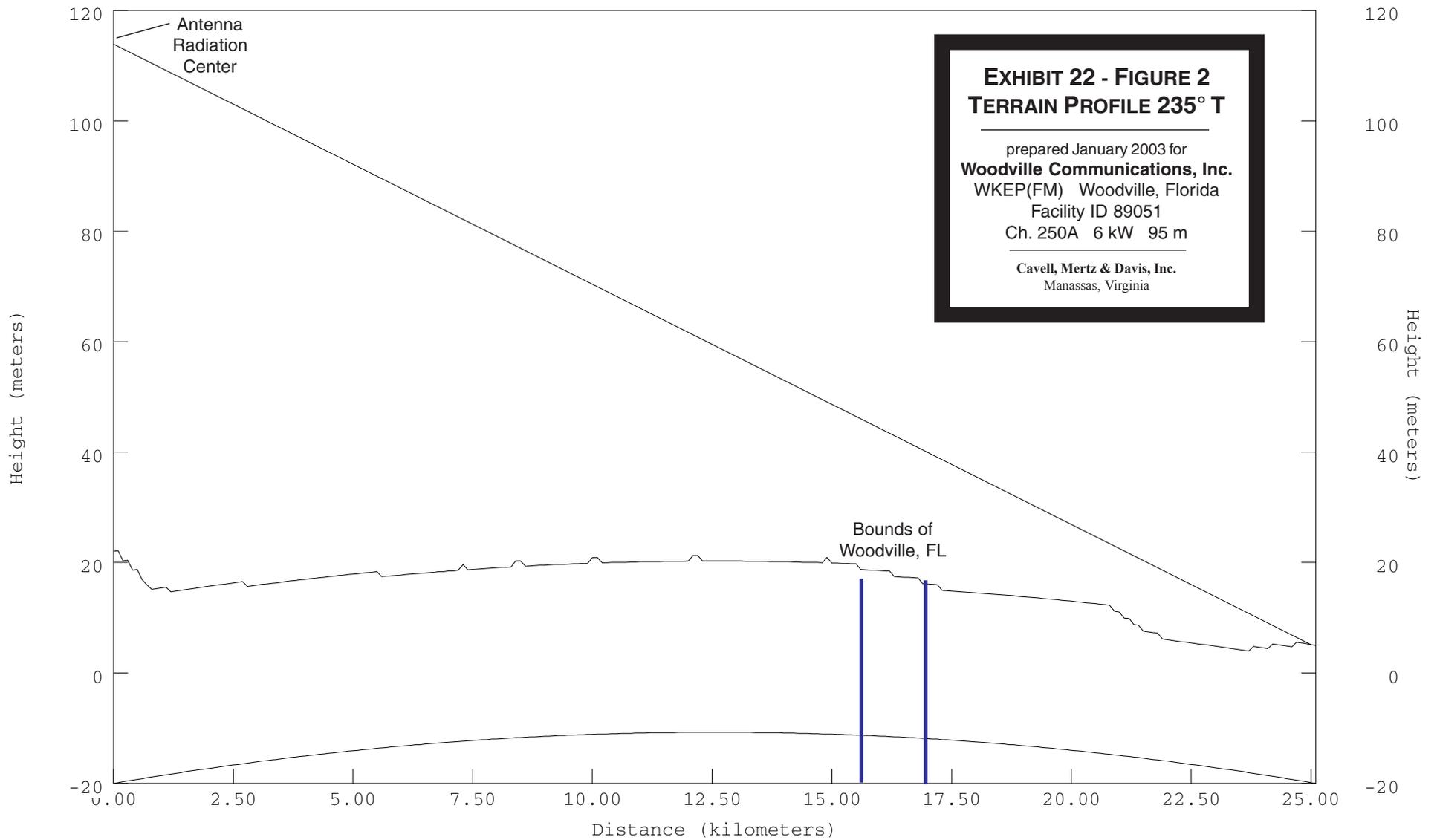
based on the foregoing, it is believed that the instant proposal satisfies the provision of §73.315(a) of the FCC Rules and known FCC policy.

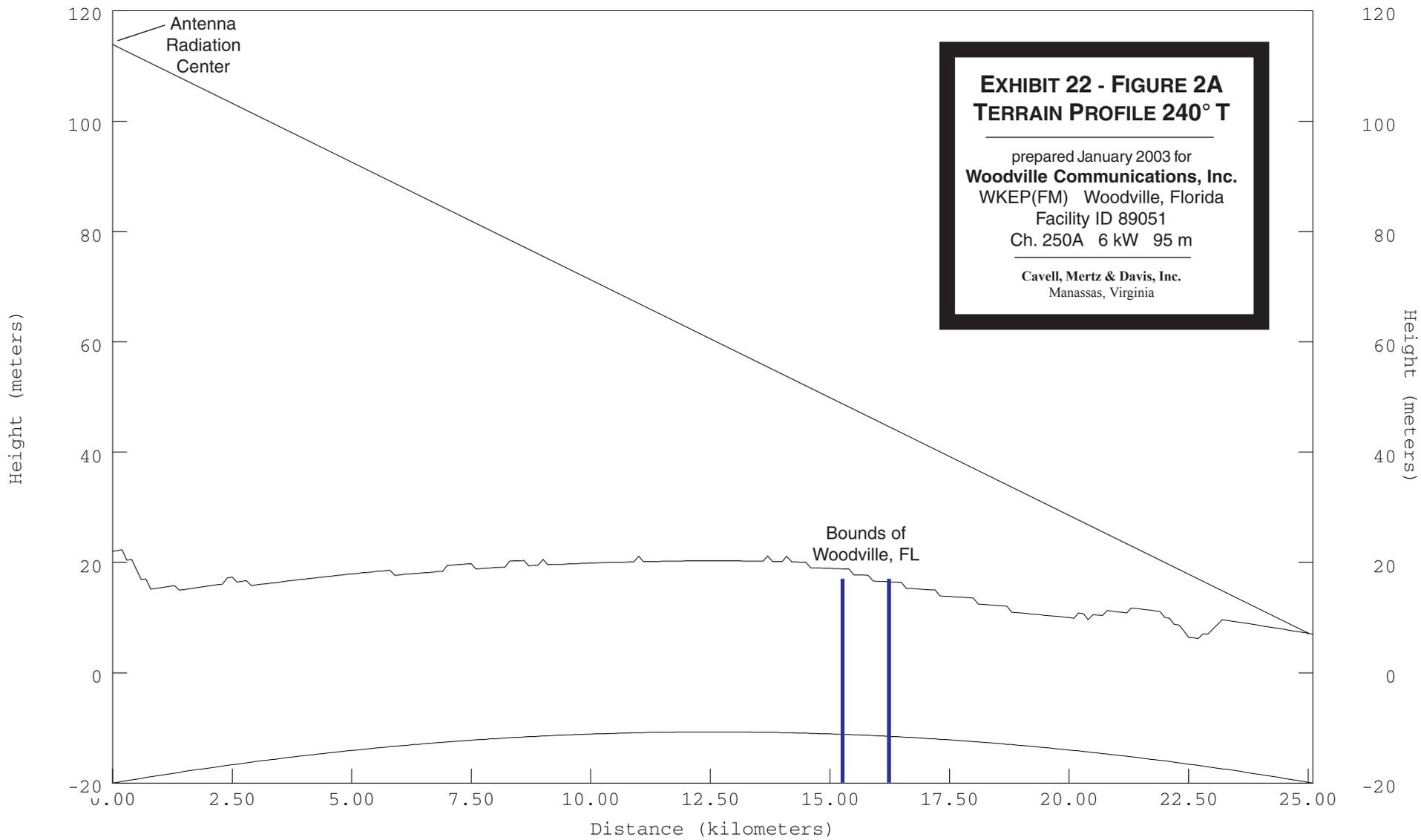
**Conclusion**

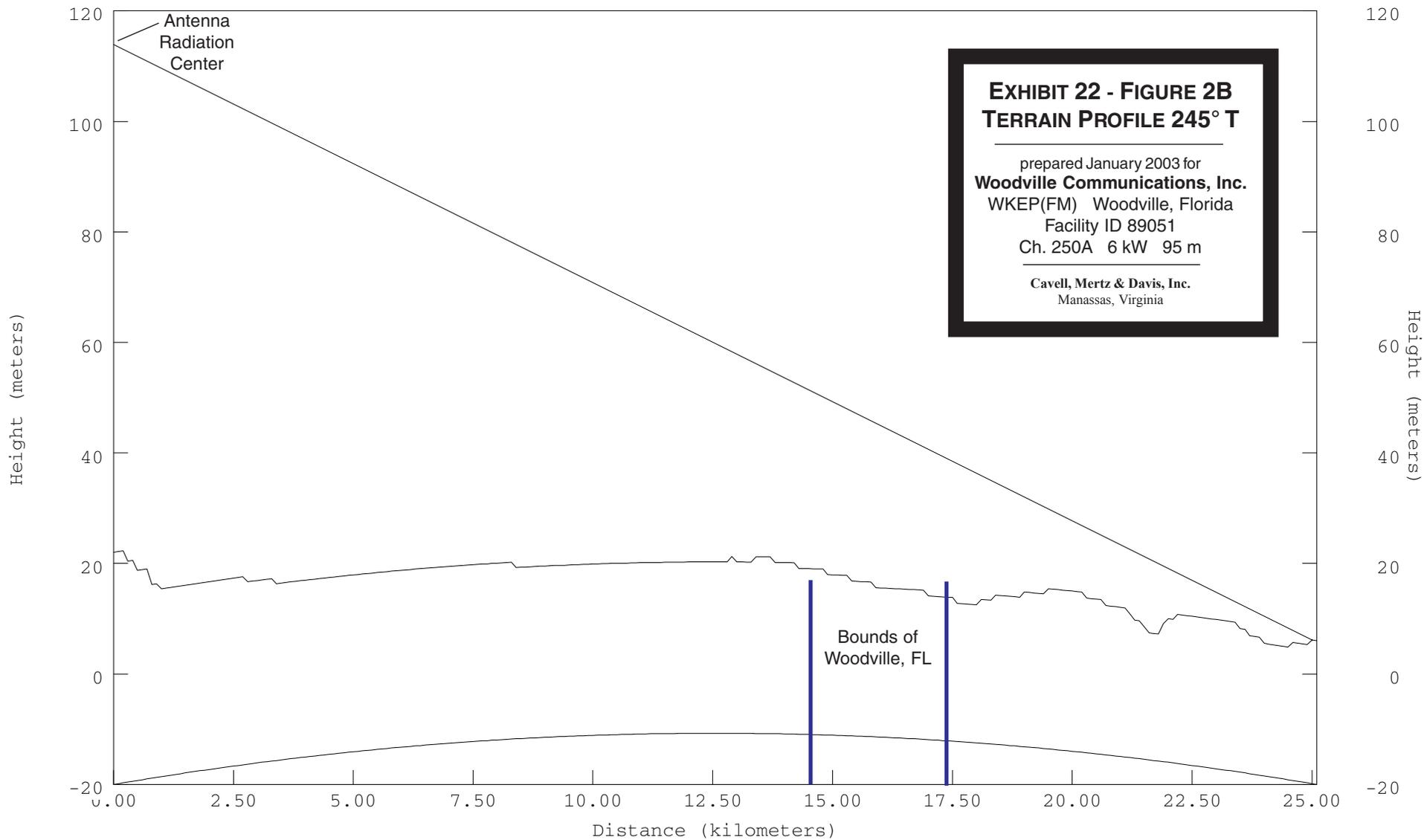
The proposed WKEP(FM) transmitter is located 15.5 kilometers from its principal community, Woodville, Florida. The 70 dB $\mu$  contour depicted using the standard FCC curves fall short of completely encompassing Woodville. However, the terrain path between the WKEP(FM) transmitter and Woodville is very flat, so application of an alternative propagation prediction method is warranted. Under these propagation conditions, the Longley-Rice model as applied herein shows that the unincorporated community of Woodville, Florida is entirely encompassed by the predicted 70 dB $\mu$  contour with a significant margin. The standard FCC 60 dB $\mu$  “protected” contour for the proposed WKEP(FM) encompasses Woodville. Thus, it is believed the instant application complies with §73.315 of the Rules.

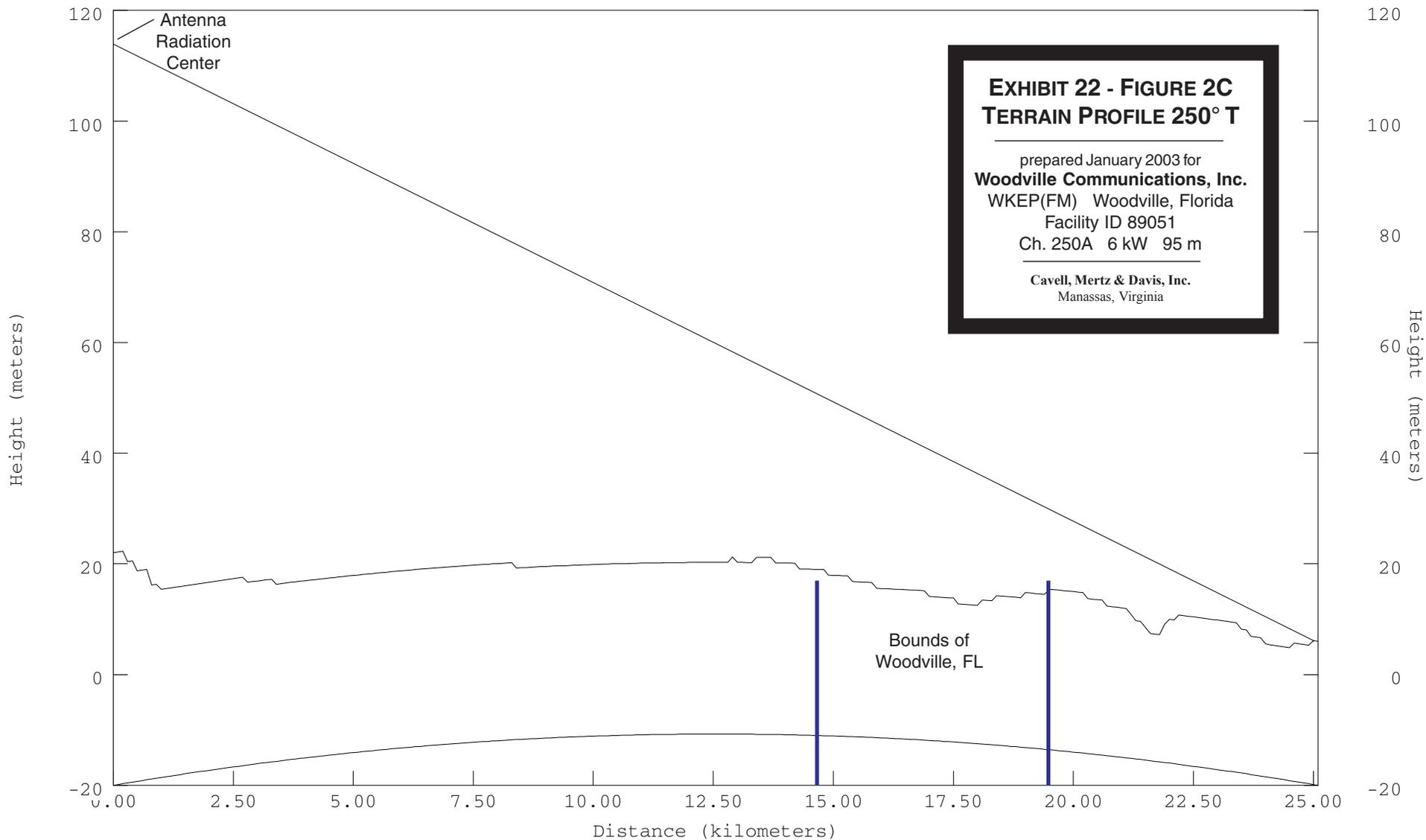
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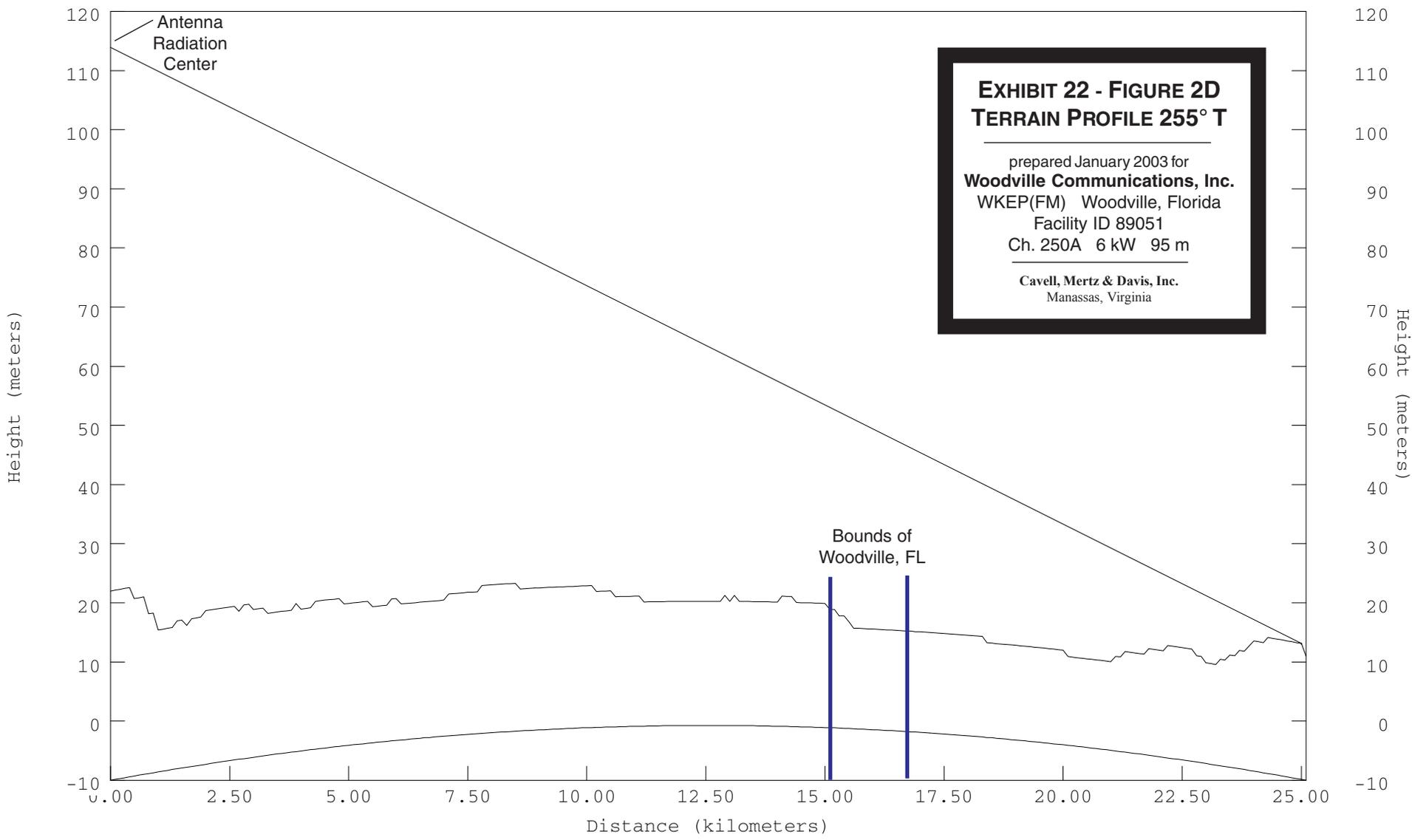












**EXHIBIT 22 - FIGURE 2D**  
**TERRAIN PROFILE 255° T**

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prepared January 2003 for  
**Woodville Communications, Inc.**  
WKEP(FM) Woodville, Florida  
Facility ID 89051  
Ch. 250A 6 kW 95 m

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Manassas, Virginia

Antenna  
Radiation  
Center

Bounds of  
Woodville, FL

Height (meters)

Height (meters)

Distance (kilometers)

Table I  
**DELTA-H TERRAIN ROUGHNESS ANALYSIS**  
 prepared for  
**Woodville Communications, Inc.**  
 WKEP(FM) Woodville, Florida  
 Facility ID 89051  
 Ch. 250A 6 kW 95 m

**Radials from Transmitter site through Woodville**  
 (Data points above 90% and below 10% omitted)  
 (Segments 10 km to 50 km from transmitter site)

| <u>Azimuth</u><br><u>° True</u> | <u>Max AMSL</u><br><u>(m)</u> | <u>Min AMSL</u><br><u>(m)</u> | <u>Delta-H</u><br><u>(m)</u> |
|---------------------------------|-------------------------------|-------------------------------|------------------------------|
| 230                             | 12                            | 6                             | 6                            |
| 235                             | 14                            | 5                             | 9                            |
| 240                             | 15                            | 6                             | 9                            |
| 245                             | 18                            | 6                             | 12                           |
| 250                             | 18                            | 6                             | 12                           |
| 255                             | 26                            | 7                             | 19                           |
| 257                             | 27                            | 7                             | 20                           |

**Radials from Transmitter Site**  
 (Data points above 90% and below 10% omitted)  
 (Segments 10 km from transmitter site to contour of interest)<sup>5</sup>

| <u>Azimuth</u><br><u>° True</u> | <u>Distance</u><br><u>to 70 dBμ</u><br><u>(km)</u> | <u>Max</u><br><u>AMSL</u><br><u>(m)</u> | <u>Min</u><br><u>AMSL</u><br><u>(m)</u> | <u>Delta-H</u><br><u>(m)</u> |
|---------------------------------|--|---|---|------------------------------|
| 230                             | 25.7   | 12                                      | 4                                       | 8                            |
| 235                             | 24.5   | 11                                      | 2                                       | 9                            |
| 240                             | 26.6   | 11                                      | 4                                       | 7                            |
| 245                             | 24.5   | 11                                      | 5                                       | 6                            |
| 250                             | 24.9   | 11                                      | 6                                       | 5                            |
| 255                             | 25.8   | 12                                      | 6                                       | 6                            |
| 257                             | 32.9   | 23                                      | 11                                      | 12                           |

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<sup>5</sup>The distance to the 70 dBμ contour as determined by the Longley-Rice propagation model is employed as the “lowest field strength value of interest” pursuant to §73.313(g).

Table II  
**LONGLEY-RICE FIELD STRENGTHS**  
 prepared for  
**Woodville Communications, Inc.**  
 WKEP(FM) Woodville, Florida  
 Facility ID 89051  
 Ch. 250A 6 kW 95 m

| Distance<br>(km) | Signal Level (dBμ) |              |              |              |              |              |              |
|------------------|--------------------|--------------|--------------|--------------|--------------|--------------|--------------|
|                  | <u>230°T</u>       | <u>231°T</u> | <u>232°T</u> | <u>233°T</u> | <u>234°T</u> | <u>235°T</u> | <u>236°T</u> |
| 23.5             | 71.01              | 70.99        | 70.97        | 70.94        | 70.91        | 70.94        | 70.96        |
| 23.6             | 70.93              | 70.86        | 70.89        | 70.88        | 70.83        | 70.80        | 70.83        |
| 23.7             | 70.80              | 70.81        | 70.76        | 70.75        | 70.78        | 70.72        | 70.71        |
| 23.8             | 70.66              | 70.72        | 70.70        | 70.67        | 70.64        | 70.67        | 70.93        |
| 23.9             | 70.66              | 70.59        | 70.62        | 70.54        | 70.56        | 70.53        | 70.65        |
| 24.0             | 70.53              | 70.54        | 70.49        | 70.48        | 70.42        | 70.45        | 70.86        |
| 24.1             | 70.40              | 70.45        | 70.36        | 70.39        | 70.37        | 70.33        | 70.83        |
| 24.2             | 70.36              | 70.33        | 70.36        | 70.27        | 70.29        | 70.33        | 71.29        |
| 24.3             | 70.27              | 70.20        | 70.23        | 70.17        | 70.17        | 70.20        | 71.29        |
| 24.4             | 70.38              | 70.20        | 70.10        | <b>70.12</b> | 70.09        | 70.08        | 71.46        |
| 24.5             | 70.51              | <b>70.07</b> | <b>70.02</b> | 69.99        | <b>70.03</b> | <b>70.01</b> | 70.92        |
| 24.6             | 70.51              | 69.95        | 69.97        | 69.91        | 69.91        | 69.96        | 71.29        |
| 24.7             | 70.50              | 69.87        | 69.84        | 69.79        | 69.84        | 69.85        | 71.19        |
| 24.8             | 70.84              | 69.83        | 69.77        | 69.74        | 69.72        | 70.54        | 71.19        |
| 24.9             | 70.84              | 69.76        | 69.65        | 69.67        | 69.66        | 70.46        | 71.10        |
| 25.0             | 70.88              | 69.76        | 69.60        | 69.55        | 69.60        | 70.40        | 71.01        |
| 25.1             | 70.97              | 70.36        | 69.53        | 69.50        | 69.48        | 70.38        | 70.92        |
| 25.2             | 70.85              | 70.47        | 69.76        | 69.42        | 69.97        | 70.30        | 70.91        |
| 25.3             | 70.85              | 70.37        | 69.85        | 69.30        | 69.97        | 70.78        | 70.82        |
| 25.4             | 70.74              | 70.36        | 69.87        | 69.47        | 70.21        | 70.95        | 70.73        |
| 25.5             | 70.63              | 70.27        | 69.78        | 69.47        | 70.17        | 70.93        | 70.64        |
| 25.6             | 70.63              | 70.17        | 69.69        | 70.02        | 70.07        | 70.85        | 70.55        |
| 25.7             | <b>70.52</b>       | 70.15        | 69.69        | 69.94        | 70.02        | 70.75        | 70.54        |
| 25.8             | 69.96              | 70.05        | 70.26        | 69.88        | 69.98        | 70.66        | 70.45        |
| 25.9             | 69.60              | 69.97        | 70.33        | 69.85        | 70.69        | 70.64        | 70.36        |
| 26.0             | 69.55              | 69.95        | 70.33        | 70.26        | 70.58        | 70.54        | 70.26        |
| 26.1             | 69.37              | 69.85        | 70.22        | 70.51        | 70.58        | 70.46        | 70.26        |
| 26.2             | 69.28              | 69.77        | 70.12        | 70.41        | 70.47        | 70.35        | 70.16        |
| 26.3             | 69.28              | 69.75        | 70.11        | 70.36        | 70.36        | 70.34        | <b>70.08</b> |
| 26.4             | 69.19              | 69.65        | 70.00        | 70.29        | 70.30        | 70.25        | 69.99        |
| 26.5             | 69.09              | 69.55        | 69.90        | 70.19        | 70.19        | 70.15        | 69.98        |
| 26.6             | 69.12              | 69.55        | 69.89        | 70.08        | 70.19        | 70.06        | 69.88        |
| 26.7             | 69.00              | 69.45        | 69.78        | 70.08        | 70.09        | 69.96        | 69.79        |
| 26.8             | 68.91              | 69.35        | 69.68        | 69.98        | 69.97        | 69.94        | 69.71        |
| 26.9             | 68.93              | 69.35        | 69.57        | 69.91        | 69.91        | 69.85        | 69.61        |
| 27.0             | 68.81              | 69.25        | 69.57        | 69.80        | 69.87        | 69.75        | 69.60        |
| 27.1             | 68.72              | 69.15        | 69.46        | 69.76        | 69.76        | 69.65        | 69.51        |
| 27.2             | 68.74              | 69.05        | 69.36        | 69.70        | 69.70        | 69.65        | 69.41        |
| 27.3             | 68.64              | 69.05        | 69.35        | 69.60        | 69.59        | 69.55        | 69.31        |
| 27.4             | 68.53              | 68.95        | 69.24        | 69.49        | 69.54        | 69.47        | 69.31        |
| 27.5             | 68.44              | 68.85        | 69.13        | 69.49        | 69.48        | 69.37        | 69.22        |
| 27.6             | 68.46              | 68.83        | 69.13        | 69.39        | 69.37        | 69.34        | 69.14        |
| 27.7             | 68.35              | 68.75        | 69.03        | 69.28        | 69.31        | 69.26        | 69.04        |
| 27.8             | 68.25              | 68.65        | 68.92        | 69.20        | 69.26        | 69.16        | 68.94        |
| 27.9             | 68.26              | 68.62        | 68.90        | 69.17        | 69.16        | 69.08        | 68.94        |
| 28.0             | 68.17              | 68.55        | 68.81        | 69.06        | 69.10        | 69.06        | 68.84        |

Table II  
**LONGLEY-RICE FIELD STRENGTHS**  
 (Page 2 of 8)

**Signal Level (dBμ)**

| <b>Distance<br/>(km)</b> | <b><u>230°T</u></b> | <b><u>231°T</u></b> | <b><u>232°T</u></b> | <b><u>233°T</u></b> | <b><u>234°T</u></b> | <b><u>235°T</u></b> | <b><u>236°T</u></b> |
|--------------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|
| 28.1                     | 68.07               | 68.45               | 68.71               | 69.00               | 68.99               | 68.95               | 68.76               |
| 28.2                     | 68.07               | 68.43               | 68.69               | 68.89               | 68.94               | 68.87               | 68.67               |
| 28.3                     | 67.98               | 68.32               | 68.58               | 68.85               | 68.88               | 68.77               | 68.65               |
| 28.4                     | 67.88               | 68.26               | 68.50               | 68.79               | 68.77               | 68.67               | 68.56               |
| 28.5                     | 67.78               | 68.23               | 68.47               | 68.68               | 68.67               | 68.67               | 68.47               |
| 28.6                     | 67.79               | 68.12               | 68.36               | 68.57               | 68.67               | 68.57               | 68.40               |
| 28.7                     | 67.69               | 68.02               | 68.28               | 68.57               | 68.56               | 68.49               | 68.30               |
| 28.8                     | 67.60               | 68.02               | 68.26               | 68.47               | 68.45               | 68.40               | 68.28               |
| 28.9                     | 67.60               | 67.92               | 68.15               | 68.36               | 68.39               | 68.36               | 68.19               |
| 29.0                     | 67.50               | 67.82               | 68.05               | 68.30               | 68.35               | 68.29               | 68.10               |
| 29.1                     | 67.41               | 67.82               | 68.05               | 68.26               | 68.29               | 68.19               | 68.03               |
| 29.2                     | 67.41               | 67.72               | 67.94               | 68.19               | 68.18               | 68.08               | 68.00               |
| 29.3                     | 67.31               | 67.62               | 67.84               | 68.09               | 68.07               | 68.08               | 67.90               |
| 29.4                     | 67.22               | 67.53               | 67.82               | 67.98               | 68.07               | 67.98               | 67.84               |
| 29.5                     | 67.12               | 67.53               | 67.74               | 67.98               | 67.97               | 67.92               | 67.74               |
| 29.6                     | 67.13               | 67.42               | 67.63               | 67.88               | 67.86               | 67.82               | 67.74               |
| 29.7                     | 67.03               | 67.33               | 67.61               | 67.78               | 67.80               | 67.78               | 67.64               |
| 29.8                     | 66.94               | 67.30               | 67.50               | 67.71               | 67.75               | 67.72               | 67.53               |
| 29.9                     | 66.94               | 67.23               | 67.43               | 67.67               | 67.65               | 67.61               | 67.47               |
| 30.0                     | 66.84               | 67.13               | 67.40               | 67.57               | 67.59               | 67.51               | 67.37               |
| 30.1                     | 66.74               | 67.10               | 67.30               | 67.50               | 67.48               | 67.44               | 67.34               |
| 30.2                     | 66.74               | 67.03               | 67.19               | 67.40               | 67.48               | 67.41               | 67.28               |
| 30.3                     | 66.65               | 66.93               | 67.19               | 67.36               | 67.38               | 67.34               | 67.18               |
| 30.4                     | 66.56               | 66.90               | 67.09               | 67.29               | 67.27               | 67.24               | 67.11               |
| 30.5                     | 66.56               | 66.80               | 66.98               | 67.19               | 67.21               | 67.14               | 67.08               |
| 30.6                     | 66.46               | 66.73               | 66.98               | 67.15               | 67.17               | 67.14               | 66.97               |
| 30.7                     | 66.37               | 66.70               | 66.88               | 67.09               | 67.07               | 67.03               | 66.92               |
| 30.8                     | 66.28               | 66.60               | 66.78               | 66.99               | 67.01               | 66.94               | 66.82               |
| 30.9                     | 66.28               | 66.50               | 66.75               | 66.88               | 66.90               | 66.88               | 66.75               |
| 31.0                     | 66.18               | 66.50               | 66.68               | 66.88               | 66.86               | 66.84               | 66.72               |
| 31.1                     | 66.09               | 66.40               | 66.58               | 66.78               | 66.80               | 66.77               | 66.62               |
| 31.2                     | 66.09               | 66.30               | 66.54               | 66.68               | 66.70               | 66.67               | 66.56               |
| 31.3                     | 66.00               | 66.24               | 66.44               | 66.61               | 66.64               | 66.57               | 66.46               |
| 31.4                     | 65.90               | 66.20               | 66.37               | 66.57               | 66.53               | 66.57               | 66.46               |
| 31.5                     | 65.89               | 66.10               | 66.35               | 66.47               | 66.49               | 66.47               | 66.36               |
| 31.6                     | 65.81               | 66.00               | 66.24               | 66.41               | 66.43               | 66.38               | 66.26               |
| 31.7                     | 65.71               | 66.00               | 66.14               | 66.31               | 66.33               | 66.30               | 66.24               |
| 31.8                     | 65.62               | 65.91               | 66.14               | 66.31               | 66.23               | 66.21               | 66.21               |
| 31.9                     | 65.62               | 65.81               | 66.03               | 66.21               | 66.23               | 66.21               | 66.85               |
| 32.0                     | 65.53               | 65.81               | 65.93               | 66.10               | 66.12               | 66.11               | 66.74               |
| 32.1                     | 65.43               | 65.71               | 65.93               | 66.04               | 66.02               | 66.74               | 66.64               |
| 32.2                     | 65.42               | 65.61               | 65.83               | 66.00               | 66.69               | 66.67               | 66.56               |
| 32.3                     | 65.34               | 65.57               | 65.90               | 66.63               | 66.65               | 66.64               | 66.52               |
| 32.4                     | 65.25               | 65.52               | 66.38               | 66.56               | 66.58               | 66.53               | 66.45               |
| 32.5                     | 65.23               | 65.78               | 66.37               | 66.45               | 66.47               | 66.45               | 66.34               |
| 32.6                     | 65.15               | 66.12               | 66.26               | 66.41               | 66.36               | 66.34               | 66.23               |
| 32.7                     | 65.82               | 66.04               | 66.22               | 66.34               | 66.36               | 66.34               | 66.23               |
| 32.8                     | 65.73               | 65.98               | 66.10               | 66.23               | 66.25               | 66.23               | 66.13               |
| 32.9                     | 65.70               | 65.93               | 66.04               | 66.11               | 66.13               | 66.13               | 66.02               |
| 33.0                     | 65.63               | 65.81               | 65.99               | 66.11               | 66.68               | 66.05               | 65.94               |

Table II  
**LONGLEY-RICE FIELD STRENGTHS**  
 (Page 3 of 8)

**Signal Level (dBμ)**

| <b>Distance<br/>(km)</b> | <b><u>237°T</u></b> | <b><u>238°T</u></b> | <b><u>239°T</u></b> | <b><u>240°T</u></b> | <b><u>241°T</u></b> | <b><u>242°T</u></b> | <b><u>243°T</u></b> |
|--------------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|
| 23.5                     | 71.51               | 72.96               | 73.07               | 72.84               | 72.59               | 71.01               | 70.90               |
| 23.6                     | 72.49               | 72.85               | 72.94               | 72.74               | 72.52               | 70.97               | 70.82               |
| 23.7                     | 72.62               | 72.77               | 72.88               | 72.62               | 72.40               | 71.67               | 70.69               |
| 23.8                     | 72.51               | 72.65               | 72.75               | 72.52               | 72.33               | 71.62               | 70.69               |
| 23.9                     | 72.42               | 72.57               | 72.66               | 72.42               | 72.21               | 71.66               | 70.82               |
| 24.0                     | 72.40               | 72.53               | 72.62               | 72.42               | 72.21               | 71.61               | 70.77               |
| 24.1                     | 72.31               | 72.44               | 72.49               | 72.31               | 72.09               | 71.51               | 70.80               |
| 24.2                     | 72.19               | 72.32               | 72.43               | 72.20               | 72.02               | 71.46               | 70.75               |
| 24.3                     | 72.11               | 72.20               | 72.30               | 72.10               | 71.90               | 72.06               | 70.66               |
| 24.4                     | 72.09               | 72.13               | 72.22               | 71.98               | 71.84               | 72.00               | 70.66               |
| 24.5                     | 71.98               | 72.08               | 72.17               | 71.88               | 71.78               | 72.01               | 71.35               |
| 24.6                     | 71.88               | 72.01               | 72.10               | 71.88               | 71.71               | 71.97               | 71.38               |
| 24.7                     | 71.77               | 71.89               | 71.98               | 71.79               | 71.59               | 71.83               | 71.27               |
| 24.8                     | 71.68               | 71.81               | 71.90               | 71.67               | 71.52               | 71.78               | 71.21               |
| 24.9                     | 71.66               | 71.69               | 71.78               | 71.57               | 71.41               | 71.65               | 71.79               |
| 25.0                     | 71.55               | 71.65               | 71.71               | 71.47               | 71.35               | 71.60               | 71.79               |
| 25.1                     | 71.46               | 71.58               | 71.66               | 71.47               | 71.29               | 71.51               | 71.75               |
| 25.2                     | 71.35               | 71.46               | 71.53               | 71.37               | 71.22               | 71.46               | 71.69               |
| 25.3                     | 71.35               | 71.38               | 71.46               | 71.26               | 71.10               | 71.34               | 71.55               |
| 25.4                     | 70.99               | 71.35               | 71.34               | 71.16               | 70.99               | 71.28               | 71.49               |
| 25.5                     | 70.34               | 71.23               | 71.34               | 71.06               | 70.92               | 71.15               | 71.36               |
| 25.6                     | 70.26               | 71.15               | 71.22               | 71.06               | 70.87               | 71.15               | 71.36               |
| 25.7                     | 70.17               | 70.37               | 71.09               | 70.95               | 70.80               | 71.01               | 71.23               |
| 25.8                     | 70.17               | 70.27               | 71.03               | 70.86               | 70.69               | 70.96               | 71.17               |
| 25.9                     | <b><u>70.07</u></b> | 70.15               | 70.91               | 70.75               | 70.62               | 70.84               | 71.04               |
| 26.0                     | 69.98               | <b><u>70.06</u></b> | 70.91               | 70.65               | 70.50               | 70.78               | 70.98               |
| 26.1                     | 69.91               | 69.98               | <b><u>70.27</u></b> | 70.64               | 70.44               | 70.65               | 70.84               |
| 26.2                     | 69.82               | 69.89               | <b><u>70.04</u></b> | 70.55               | 70.39               | 70.65               | 70.84               |
| 26.3                     | 69.82               | 69.80               | 69.83               | 70.45               | 70.32               | 70.52               | 70.72               |
| 26.4                     | 69.72               | 69.79               | 69.75               | 70.35               | 70.20               | 70.47               | 70.65               |
| 26.5                     | 69.65               | 69.72               | 69.73               | 70.25               | 70.14               | 70.35               | 70.52               |
| 26.6                     | 69.56               | 69.62               | 69.62               | <b><u>70.25</u></b> | 70.02               | 70.28               | 70.47               |
| 26.7                     | 69.54               | 69.54               | 69.57               | 69.45               | <b><u>70.02</u></b> | 70.16               | 70.39               |
| 26.8                     | 69.46               | 69.45               | 69.47               | 69.67               | 69.91               | 70.16               | 70.33               |
| 26.9                     | 69.37               | 69.43               | 69.40               | 69.26               | 69.84               | <b><u>70.03</u></b> | 70.27               |
| 27.0                     | 69.30               | 69.36               | 69.36               | 69.14               | 69.73               | 69.98               | 70.14               |
| 27.1                     | 69.21               | 69.27               | 69.30               | 68.97               | 69.62               | 69.86               | <b><u>70.07</u></b> |
| 27.2                     | 69.19               | 69.18               | 69.21               | 68.97               | 69.55               | 69.73               | 69.95               |
| 27.3                     | 69.11               | 69.09               | 69.14               | 68.90               | 69.50               | 69.73               | 69.88               |
| 27.4                     | 69.02               | 69.09               | 69.04               | 68.83               | 69.43               | 69.60               | 69.83               |
| 27.5                     | 68.94               | 69.00               | 68.99               | 68.72               | 68.60               | 69.55               | 69.76               |
| 27.6                     | 68.93               | 68.91               | 68.94               | 68.65               | 68.49               | 69.43               | 69.65               |
| 27.7                     | 68.84               | 68.83               | 68.84               | 68.65               | 68.35               | 69.38               | 69.57               |
| 27.8                     | 68.76               | 68.73               | 68.78               | 68.58               | 68.35               | 69.25               | 69.46               |
| 27.9                     | 68.67               | 68.73               | 68.68               | 68.47               | 68.26               | 69.25               | 69.39               |
| 28.0                     | 68.59               | 68.64               | 68.68               | 68.40               | 68.62               | 69.13               | 69.34               |

Table II  
**LONGLEY-RICE FIELD STRENGTHS**  
 (Page 4 of 8)

**Signal Level (dBμ)**

| <b>Distance<br/>(km)</b> | <b><u>237°T</u></b> | <b><u>238°T</u></b> | <b><u>239°T</u></b> | <b><u>240°T</u></b> | <b><u>241°T</u></b> | <b><u>242°T</u></b> | <b><u>243°T</u></b> |
|--------------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|
| 28.1                     | 68.57               | 68.56               | 68.58               | 68.29               | 68.20               | 69.08               | 69.27               |
| 28.2                     | 68.48               | 68.47               | 68.47               | 68.32               | 68.84               | 68.95               | 69.16               |
| 28.3                     | 68.40               | 68.45               | 68.42               | 68.22               | 68.74               | 68.90               | 69.73               |
| 28.4                     | 68.31               | 68.38               | 68.32               | 68.15               | 68.74               | 68.78               | 69.70               |
| 28.5                     | 68.23               | 68.29               | 68.32               | 68.07               | 68.64               | 68.78               | 69.64               |
| 28.6                     | 68.22               | 68.21               | 68.22               | 67.96               | 68.56               | 68.65               | 69.57               |
| 28.7                     | 68.14               | 68.11               | 68.15               | 67.98               | 68.46               | 68.60               | 69.54               |
| 28.8                     | 68.05               | 68.09               | 68.06               | 67.89               | 68.38               | 68.53               | 69.58               |
| 28.9                     | 67.95               | 68.02               | 67.98               | 67.90               | 68.36               | 68.50               | 69.96               |
| 29.0                     | 67.95               | 67.93               | 67.95               | 68.14               | 68.25               | 68.38               | 69.84               |
| 29.1                     | 67.86               | 67.85               | 67.85               | 68.28               | 68.18               | 68.38               | 69.74               |
| 29.2                     | 67.79               | 67.76               | 67.80               | 68.29               | 68.07               | 68.23               | 69.71               |
| 29.3                     | 67.69               | 67.76               | 67.69               | 68.33               | 67.99               | 68.20               | 69.64               |
| 29.4                     | 67.60               | 67.66               | 67.63               | 68.21               | 67.89               | 68.02               | 69.54               |
| 29.5                     | 67.60               | 67.57               | 67.59               | 68.12               | 67.89               | 67.94               | 69.58               |
| 29.6                     | 67.50               | 67.49               | 67.53               | 68.04               | 67.79               | 67.91               | 69.32               |
| 29.7                     | 67.43               | 67.40               | 67.44               | 67.91               | 67.71               | 67.84               | 69.74               |
| 29.8                     | 67.34               | 67.40               | 67.37               | 67.61               | 67.61               | 67.73               | 69.19               |
| 29.9                     | 67.32               | 67.31               | 67.27               | 67.84               | 67.53               | 67.66               | 69.23               |
| 30.0                     | 67.24               | 67.24               | 67.23               | 67.75               | 67.51               | 67.55               | 69.32               |
| 30.1                     | 67.15               | 67.14               | 67.18               | 67.63               | 67.43               | 67.48               | 69.45               |
| 30.2                     | 67.08               | 67.04               | 67.07               | 67.55               | 67.33               | 67.45               | 69.35               |
| 30.3                     | 66.98               | 67.04               | 67.01               | 67.55               | 67.24               | 67.38               | 69.26               |
| 30.4                     | 66.96               | 66.96               | 66.92               | 67.47               | 67.15               | 67.28               | 68.98               |
| 30.5                     | 66.89               | 66.88               | 66.92               | 67.34               | 67.15               | 67.19               | 69.10               |
| 30.6                     | 66.79               | 66.79               | 66.82               | 67.25               | 67.05               | 67.10               | 69.01               |
| 30.7                     | 66.72               | 66.79               | 66.72               | 67.17               | 66.97               | 67.02               | 68.91               |
| 30.8                     | 66.63               | 66.69               | 67.06               | 67.17               | 66.87               | 66.99               | 68.80               |
| 30.9                     | 66.60               | 66.61               | 67.19               | 67.10               | 66.77               | 66.92               | 68.82               |
| 31.0                     | 66.53               | 66.52               | 67.19               | 66.96               | 66.69               | 66.82               | 68.06               |
| 31.1                     | 66.44               | 66.43               | 67.21               | 66.88               | 66.67               | 66.74               | 68.33               |
| 31.2                     | 66.37               | 66.43               | 67.13               | 66.75               | 66.59               | 66.80               | 68.42               |
| 31.3                     | 66.34               | 66.35               | 67.03               | 66.80               | 66.90               | 66.80               | 68.50               |
| 31.4                     | 66.28               | 67.02               | 66.93               | 66.67               | 67.72               | 67.28               | 69.16               |
| 31.5                     | 66.18               | 66.92               | 66.92               | 66.70               | 67.89               | 67.82               | 69.77               |
| 31.6                     | 66.82               | 66.82               | 66.82               | 67.17               | 67.89               | 68.55               | 69.89               |
| 31.7                     | 66.77               | 66.82               | 66.74               | 67.69               | 68.63               | 69.62               | 70.40               |
| 31.8                     | 66.74               | 66.72               | 67.35               | 68.28               | 68.81               | 70.45               | 70.68               |
| 31.9                     | 66.67               | 66.63               | 67.58               | 68.34               | 69.27               | 70.40               | 70.49               |
| 32.0                     | 66.56               | 66.53               | 67.56               | 68.56               | 69.47               | 70.48               | 70.37               |
| 32.1                     | 66.46               | 66.42               | 68.33               | 68.71               | 69.59               | 70.71               | 70.37               |
| 32.2                     | 66.38               | 66.42               | 68.87               | 69.18               | 69.59               | 70.60               | 70.25               |
| 32.3                     | 66.35               | 66.33               | 69.09               | 69.33               | 69.99               | 70.44               | 70.07               |
| 32.4                     | 66.28               | 66.30               | 70.17               | 69.58               | 70.15               | 70.31               | 69.96               |
| 32.5                     | 66.17               | 66.22               | 70.63               | 69.93               | 70.24               | 70.27               | 69.78               |
| 32.6                     | 66.06               | 66.80               | 70.67               | 70.35               | 70.11               | 70.15               | 70.16               |
| 32.7                     | 66.06               | 66.40               | 70.50               | 70.25               | 70.08               | 69.99               | 70.16               |
| 32.8                     | 65.96               | 66.57               | 70.38               | 70.10               | 69.93               | 69.87               | 70.06               |
| 32.9                     | 65.89               | 67.27               | 69.76               | 70.10               | 69.80               | 69.70               | 69.89               |
| 33.0                     | 66.45               | 67.38               | 69.76               | 69.95               | 69.64               | 69.70               | 69.76               |

Table II  
**LONGLEY-RICE FIELD STRENGTHS**  
 (Page 5 of 8)

| Distance<br>(km) | Signal Level (dBμ) |              |              |              |              |              |              |
|------------------|--------------------|--------------|--------------|--------------|--------------|--------------|--------------|
|                  | <u>244°T</u>       | <u>245°T</u> | <u>246°T</u> | <u>247°T</u> | <u>248°T</u> | <u>249°T</u> | <u>250°T</u> |
| 23.5             | 70.93              | 71.20        | 71.85        | 71.76        | 71.93        | 72.28        | 72.65        |
| 23.6             | 70.93              | 71.11        | 71.76        | 71.69        | 71.89        | 72.13        | 72.47        |
| 23.7             | 70.80              | 70.77        | 70.81        | 71.63        | 71.84        | 72.09        | 72.47        |
| 23.8             | 70.72              | 70.68        | 70.81        | 71.52        | 71.71        | 71.95        | 72.44        |
| 23.9             | 70.59              | 70.57        | 70.64        | 70.74        | 71.71        | 71.18        | 72.26        |
| 24.0             | 70.51              | 70.47        | 70.52        | 70.47        | 70.75        | 71.02        | 71.71        |
| 24.1             | 70.38              | 70.47        | 70.43        | 70.38        | 70.67        | 70.90        | 71.38        |
| 24.2             | 70.30              | 70.36        | 70.31        | 70.35        | 70.64        | 70.90        | 71.23        |
| 24.3             | 70.25              | 70.27        | 70.22        | 70.27        | 70.22        | 70.77        | 71.22        |
| 24.4             | 70.19              | 70.15        | 70.10        | 70.18        | 70.13        | 70.75        | 71.05        |
| 24.5             | 70.16              | <b>70.06</b> | <b>70.10</b> | <b>70.06</b> | 70.01        | <b>70.21</b> | 71.05        |
| 24.6             | 70.07              | 69.94        | 69.98        | 69.97        | <b>70.01</b> | 69.93        | 71.04        |
| 24.7             | 70.40              | 69.94        | 69.90        | 69.85        | 69.92        | 69.84        | 70.38        |
| 24.8             | 70.81              | 69.83        | 69.81        | 69.78        | 69.81        | 69.75        | 70.09        |
| 24.9             | 70.81              | 69.74        | 69.69        | 69.74        | 69.72        | 69.64        | <b>70.08</b> |
| 25.0             | 70.75              | 70.33        | 69.61        | 69.66        | 69.61        | 69.64        | 69.86        |
| 25.1             | 70.64              | 70.43        | 69.49        | 69.57        | 69.52        | 69.53        | 69.85        |
| 25.2             | 70.58              | 70.36        | 69.49        | 69.46        | 69.44        | 69.45        | 69.72        |
| 25.3             | 70.47              | 70.28        | 70.13        | 69.37        | 69.32        | 69.43        | 69.72        |
| 25.4             | 71.13              | 70.28        | 70.06        | 69.84        | 69.32        | 69.33        | 69.72        |
| 25.5             | 71.13              | 70.20        | 69.98        | 69.85        | 69.21        | 69.31        | 69.58        |
| 25.6             | 71.12              | 70.12        | 69.91        | 69.82        | 69.31        | 69.99        | 69.57        |
| 25.7             | 71.01              | 70.04        | 69.83        | 69.76        | 69.85        | 70.05        | 69.56        |
| 25.8             | 70.93              | 69.96        | 69.76        | 69.71        | 69.83        | 70.05        | 69.44        |
| 25.9             | 70.82              | 70.35        | 69.76        | 69.61        | 69.78        | 69.93        | 69.69        |
| 26.0             | 70.73              | 70.35        | 69.68        | 69.57        | 69.68        | 69.90        | 70.13        |
| 26.1             | 70.73              | 70.61        | 69.61        | 69.46        | 69.68        | 69.77        | 70.09        |
| 26.2             | 70.63              | 70.51        | 70.22        | 69.42        | 69.56        | 69.73        | 70.09        |
| 26.3             | 70.53              | 70.41        | 70.19        | 69.32        | 69.52        | 69.69        | 69.95        |
| 26.4             | 70.44              | 70.31        | 70.16        | 69.32        | 69.47        | 69.57        | 69.92        |
| 26.5             | 70.34              | 70.22        | 70.08        | 70.02        | 69.36        | 69.57        | 69.88        |
| 26.6             | 70.25              | 70.12        | 70.08        | 69.97        | 69.32        | 69.53        | 69.75        |
| 26.7             | 70.13              | 70.12        | 69.98        | 69.91        | 69.99        | 69.41        | 69.70        |
| 26.8             | 70.13              | 70.03        | 69.90        | 69.79        | 69.96        | 69.37        | 69.57        |
| 26.9             | <b>70.04</b>       | 69.94        | 69.80        | 69.72        | 69.96        | 69.25        | 69.52        |
| 27.0             | 69.94              | 70.28        | 69.72        | 69.61        | 69.83        | 69.20        | 69.52        |
| 27.1             | 69.85              | 70.49        | 70.33        | 69.61        | 69.78        | 69.16        | 69.39        |
| 27.2             | 69.79              | 70.38        | 70.33        | 69.54        | 69.64        | 69.04        | 69.35        |
| 27.3             | 69.71              | 70.38        | 70.86        | 69.43        | 69.59        | 69.04        | 69.30        |
| 27.4             | 69.71              | 70.70        | 70.86        | 69.37        | 69.53        | 69.64        | 69.18        |
| 27.5             | 69.79              | 70.87        | 71.15        | 70.00        | 69.40        | 69.62        | 69.13        |
| 27.6             | 70.19              | 70.92        | 71.30        | 69.92        | 69.40        | 69.61        | 69.01        |
| 27.7             | 70.16              | 71.30        | 71.36        | 70.49        | 69.27        | 69.47        | 68.96        |
| 27.8             | 70.19              | 71.77        | 72.03        | 70.50        | 69.22        | 69.42        | 68.96        |
| 27.9             | 70.57              | 71.68        | 72.03        | 71.03        | 69.85        | 69.28        | 68.90        |
| 28.0             | 70.57              | 71.68        | 72.63        | 71.32        | 69.77        | 69.23        | 69.12        |

Table II  
**LONGLEY-RICE FIELD STRENGTHS**  
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| Distance<br>(km) | Signal Level (dBμ) |              |              |              |              |              |              |
|------------------|--------------------|--------------|--------------|--------------|--------------|--------------|--------------|
|                  | <u>244°T</u>       | <u>245°T</u> | <u>246°T</u> | <u>247°T</u> | <u>248°T</u> | <u>249°T</u> | <u>250°T</u> |
| 28.1             | 70.46              | 71.55        | 72.55        | 71.48        | 70.14        | 69.23        | 69.48        |
| 28.2             | 70.99              | 71.99        | 72.80        | 72.09        | 70.20        | 69.08        | 69.36        |
| 28.3             | 70.63              | 72.06        | 72.84        | 72.35        | 70.20        | 69.04        | 69.29        |
| 28.4             | 70.81              | 72.67        | 73.25        | 72.25        | 69.14        | 68.89        | 69.17        |
| 28.5             | 70.83              | 72.77        | 72.75        | 72.22        | 68.59        | 68.85        | 69.10        |
| 28.6             | 70.83              | 72.77        | 72.75        | 70.89        | 68.54        | 68.79        | 69.10        |
| 28.7             | 70.92              | 72.58        | 72.39        | 69.80        | 68.41        | 68.66        | 68.97        |
| 28.8             | 71.06              | 72.13        | 72.26        | 68.58        | 68.35        | 68.60        | 68.91        |
| 28.9             | 71.46              | 71.73        | 72.57        | 69.57        | 68.22        | 68.60        | 68.89        |
| 29.0             | 70.80              | 71.59        | 72.46        | 69.10        | 68.17        | 69.46        | 69.06        |
| 29.1             | 70.63              | 71.47        | 72.34        | 69.76        | 68.17        | 71.06        | 69.86        |
| 29.2             | 70.49              | 71.35        | 72.20        | 70.26        | 69.20        | 72.80        | 70.61        |
| 29.3             | 70.49              | 71.35        | 72.20        | 70.84        | 70.77        | 72.41        | 70.72        |
| 29.4             | 70.40              | 71.53        | 72.03        | 71.59        | 72.73        | 71.78        | 70.72        |
| 29.5             | 70.78              | 72.14        | 71.92        | 71.73        | 72.66        | 71.40        | 71.31        |
| 29.6             | 70.73              | 71.98        | 71.73        | 72.08        | 72.03        | 70.57        | 71.43        |
| 29.7             | 71.28              | 71.82        | 71.63        | 72.01        | 72.33        | 71.00        | 72.01        |
| 29.8             | 71.61              | 71.68        | 71.45        | 71.94        | 72.33        | 70.84        | 72.15        |
| 29.9             | 71.61              | 71.68        | 71.33        | 71.78        | 72.18        | 71.53        | 72.52        |
| 30.0             | 71.49              | 71.54        | 71.33        | 71.72        | 72.07        | 72.16        | 72.38        |
| 30.1             | 71.31              | 71.38        | 71.15        | 71.49        | 71.47        | 72.09        | 72.23        |
| 30.2             | 71.15              | 71.23        | 71.05        | 71.43        | 71.79        | 71.88        | 72.14        |
| 30.3             | 71.15              | 71.09        | 70.87        | 71.20        | 71.70        | 71.79        | 72.12        |
| 30.4             | 71.20              | 70.93        | 71.30        | 71.48        | 71.50        | 71.70        | 72.44        |
| 30.5             | 71.20              | 70.79        | 71.13        | 71.56        | 71.40        | 71.57        | 72.30        |
| 30.6             | 71.27              | 70.79        | 71.13        | 71.38        | 71.40        | 71.49        | 72.15        |
| 30.7             | 71.09              | 70.65        | 70.95        | 71.38        | 71.21        | 71.28        | 72.24        |
| 30.8             | 70.97              | 70.50        | 70.83        | 71.63        | 71.11        | 71.19        | 72.34        |
| 30.9             | 70.79              | 70.35        | 70.69        | 71.60        | 70.91        | 71.10        | 72.20        |
| 31.0             | 70.59              | 70.19        | 70.50        | 71.36        | 70.82        | 70.89        | 72.05        |
| 31.1             | 70.67              | 70.05        | 70.38        | 71.63        | 71.13        | 70.87        | 72.04        |
| 31.2             | 70.16              | 70.05        | 70.38        | 71.68        | 71.06        | 71.23        | 71.90        |
| 31.3             | 69.80              | 69.90        | 70.38        | 70.99        | 71.06        | 70.62        | 71.76        |
| 31.4             | 69.81              | 69.75        | 70.39        | 70.99        | 71.34        | 70.91        | 71.61        |
| 31.5             | 70.08              | 69.59        | 70.44        | 70.76        | 71.26        | 70.82        | 71.48        |
| 31.6             | 69.88              | 69.45        | 70.27        | 70.68        | 71.53        | 70.73        | 71.72        |
| 31.7             | 69.96              | 69.31        | 70.15        | 70.46        | 71.41        | 71.01        | 71.60        |
| 31.8             | 69.77              | 69.19        | 70.03        | 70.38        | 70.88        | 70.93        | 71.08        |
| 31.9             | 69.65              | 69.19        | 69.86        | 70.30        | 70.65        | 70.83        | 71.35        |
| 32.0             | 69.48              | 69.05        | 69.86        | 70.08        | 70.55        | 70.93        | 70.83        |
| 32.1             | 69.37              | 68.94        | 69.70        | 70.08        | 70.43        | 71.10        | 70.69        |
| 32.2             | 69.20              | 69.35        | 69.58        | 69.86        | 70.34        | 70.98        | 70.54        |
| 32.3             | 69.09              | 69.19        | 69.42        | 69.78        | 70.25        | 70.77        | 70.83        |
| 32.4             | 69.09              | 69.06        | 69.29        | 69.71        | 70.09        | 70.71        | 70.25        |
| 32.5             | 69.15              | 69.06        | 69.14        | 69.50        | 70.45        | 70.48        | 70.10        |
| 32.6             | 69.36              | 69.11        | 69.22        | 69.41        | 69.68        | 70.16        | 70.40        |
| 32.7             | 69.26              | 69.32        | 69.22        | 69.17        | 69.59        | 69.78        | 70.39        |
| 32.8             | 69.24              | 69.18        | 69.24        | 69.17        | 69.59        | 69.64        | 69.80        |
| 32.9             | 69.47              | 69.04        | 68.74        | 68.98        | 69.38        | 70.01        | 69.64        |
| 33.0             | 69.47              | 69.27        | 68.58        | 69.37        | 69.30        | 69.47        | 69.55        |

Table II  
**LONGLEY-RICE FIELD STRENGTHS**  
 (Page 7 of 8)

| Distance<br>(km) | Signal Level (dBμ) |              |              |              |              |              |              |
|------------------|--------------------|--------------|--------------|--------------|--------------|--------------|--------------|
|                  | <u>251°T</u>       | <u>252°T</u> | <u>253°T</u> | <u>254°T</u> | <u>255°T</u> | <u>256°T</u> | <u>257°T</u> |
| 23.5             | 72.85              | 72.88        | 73.45        | 74.57        | 73.58        | 72.10        | 71.17        |
| 23.6             | 72.77              | 72.80        | 73.39        | 74.48        | 73.50        | 72.47        | 71.17        |
| 23.7             | 72.64              | 72.70        | 73.30        | 74.43        | 74.12        | 72.37        | 71.08        |
| 23.8             | 72.57              | 72.61        | 73.19        | 74.30        | 74.05        | 73.01        | 71.00        |
| 23.9             | 72.57              | 72.52        | 73.07        | 74.18        | 74.48        | 72.95        | 70.92        |
| 24.0             | 72.44              | 72.42        | 72.95        | 74.06        | 74.94        | 72.89        | 70.90        |
| 24.1             | 72.37              | 72.33        | 72.83        | 73.92        | 74.88        | 73.33        | 70.81        |
| 24.2             | 71.79              | 72.33        | 72.76        | 74.33        | 74.95        | 73.33        | 71.52        |
| 24.3             | 71.47              | 72.22        | 72.76        | 73.69        | 75.52        | 73.83        | 72.45        |
| 24.4             | 71.37              | 72.14        | 72.63        | 73.96        | 75.05        | 74.30        | 73.32        |
| 24.5             | 71.22              | 72.05        | 72.52        | 73.96        | 74.96        | 74.61        | 73.32        |
| 24.6             | 71.15              | 71.95        | 72.44        | 73.45        | 74.96        | 75.16        | 74.02        |
| 24.7             | 71.08              | 71.86        | 72.30        | 73.32        | 74.82        | 75.21        | 74.71        |
| 24.8             | 71.06              | 71.78        | 72.18        | 73.17        | 74.63        | 75.38        | 74.95        |
| 24.9             | 70.99              | 71.24        | 71.58        | 73.01        | 74.57        | 74.95        | 74.86        |
| 25.0             | 70.92              | 71.59        | 71.23        | 72.58        | 74.41        | 74.84        | 74.95        |
| 25.1             | 70.83              | 71.59        | 71.13        | 70.92        | 72.49        | 75.16        | 74.58        |
| 25.2             | 70.76              | 70.80        | 71.02        | 70.37        | 72.62        | 75.05        | 74.85        |
| 25.3             | 70.69              | 70.69        | 71.02        | 70.37        | 72.85        | 74.84        | 74.49        |
| 25.4             | 70.60              | 70.55        | 70.98        | 70.26        | 72.63        | 74.73        | 74.09        |
| 25.5             | <b>70.53</b>       | 70.49        | 70.87        | 70.26        | 70.86        | 74.56        | 74.45        |
| 25.6             | 69.69              | 70.40        | 70.75        | 70.24        | 70.86        | 74.49        | 74.51        |
| 25.7             | 69.69              | 70.32        | 70.71        | 70.14        | 71.13        | 74.46        | 74.14        |
| 25.8             | 69.90              | 70.25        | 70.61        | 70.03        | <b>70.34</b> | 74.32        | 73.73        |
| 25.9             | 70.30              | 70.16        | 70.49        | <b>70.01</b> | 69.86        | 73.74        | 73.65        |
| 26.0             | 70.22              | 70.16        | 70.46        | 69.91        | 69.27        | 73.50        | 73.95        |
| 26.1             | 70.14              | 70.10        | 70.35        | 69.81        | 69.10        | 72.84        | 73.35        |
| 26.2             | 70.07              | <b>70.01</b> | 70.35        | 69.69        | 69.05        | 73.12        | 73.10        |
| 26.3             | 69.99              | 69.93        | 70.31        | 69.68        | 68.96        | 73.59        | 72.97        |
| 26.4             | 69.91              | 69.86        | 70.20        | 69.58        | 68.81        | 73.46        | 72.83        |
| 26.5             | 69.91              | 69.83        | 70.09        | 69.58        | 68.90        | 72.87        | 72.70        |
| 26.6             | 69.82              | 70.46        | <b>70.05</b> | 69.54        | 68.90        | 72.72        | 72.57        |
| 26.7             | 69.74              | 70.38        | 69.95        | 69.44        | 68.79        | 72.72        | 72.45        |
| 26.8             | 69.67              | 70.28        | 69.83        | 69.35        | 69.38        | 72.03        | 72.45        |
| 26.9             | 69.63              | 70.28        | 69.71        | 69.31        | 69.49        | 71.87        | 72.90        |
| 27.0             | 69.61              | 70.21        | 69.69        | 69.22        | 69.39        | 71.56        | 72.76        |
| 27.1             | 69.77              | 70.11        | 69.87        | 69.12        | 69.93        | 71.20        | 72.63        |
| 27.2             | 70.10              | 70.07        | 69.87        | 69.01        | 69.69        | 70.82        | 71.97        |
| 27.3             | 70.01              | 70.65        | 70.75        | 69.71        | 69.92        | 70.76        | 71.81        |
| 27.4             | 70.01              | 71.05        | 70.91        | 69.71        | 70.38        | 71.11        | 71.65        |
| 27.5             | 69.91              | 71.11        | 71.59        | 70.16        | 70.55        | 70.98        | 71.51        |
| 27.6             | 69.83              | 71.03        | 71.91        | 71.03        | 70.33        | 71.08        | 71.33        |
| 27.7             | 69.73              | 70.94        | 72.42        | 71.42        | 70.33        | 71.40        | 71.72        |
| 27.8             | 69.64              | 70.94        | 73.04        | 71.78        | 70.91        | 71.40        | 71.68        |
| 27.9             | 69.56              | 70.85        | 73.14        | 71.79        | 70.90        | 71.76        | 71.68        |
| 28.0             | 69.46              | 70.73        | 72.57        | 71.66        | 71.21        | 71.69        | 71.57        |

Table II  
**LONGLEY-RICE FIELD STRENGTHS**  
 (Page 8 of 8)

| Distance<br>(km) | Signal Level (dBμ) |              |              |              |              |              |              |
|------------------|--------------------|--------------|--------------|--------------|--------------|--------------|--------------|
|                  | <u>251°T</u>       | <u>252°T</u> | <u>253°T</u> | <u>254°T</u> | <u>255°T</u> | <u>256°T</u> | <u>257°T</u> |
| 28.1             | 69.37              | 71.05        | 72.57        | 71.59        | 71.23        | 71.01        | 71.44        |
| 28.2             | 69.28              | 70.46        | 71.91        | 72.11        | 70.65        | 70.86        | 71.31        |
| 28.3             | 69.28              | 69.71        | 71.76        | 72.42        | 70.76        | 71.23        | 71.18        |
| 28.4             | 69.19              | 69.57        | 72.18        | 72.42        | 71.36        | <b>70.04</b> | 70.59        |
| 28.5             | 69.10              | 68.88        | 71.78        | 72.34        | 71.65        | 69.34        | 70.37        |
| 28.6             | 69.01              | 69.40        | 71.94        | 72.32        | 72.28        | 69.73        | 70.19        |
| 28.7             | 68.92              | 69.40        | 72.34        | 72.60        | 72.28        | 70.03        | 70.06        |
| 28.8             | 68.83              | 69.34        | 72.24        | 72.47        | 72.09        | 70.19        | 70.53        |
| 28.9             | 69.28              | 69.97        | 72.07        | 71.83        | 71.87        | 70.19        | 70.46        |
| 29.0             | 70.08              | 70.66        | 71.84        | 71.94        | 71.89        | 70.67        | 70.46        |
| 29.1             | 70.08              | 70.78        | 71.84        | 72.06        | 71.69        | 70.92        | 70.81        |
| 29.2             | 70.78              | 71.40        | 72.02        | 71.93        | 71.48        | 71.52        | 71.87        |
| 29.3             | 71.96              | 71.75        | 72.14        | 71.79        | 71.74        | 72.14        | 72.32        |
| 29.4             | 72.48              | 72.07        | 71.89        | 71.79        | 71.45        | 72.64        | 73.52        |
| 29.5             | 72.35              | 72.01        | 71.61        | 71.65        | 71.69        | 72.74        | 73.49        |
| 29.6             | 72.70              | 72.01        | 71.72        | 71.53        | 71.93        | 73.08        | 73.34        |
| 29.7             | 72.61              | 71.94        | 71.54        | 71.39        | 71.67        | 72.95        | 73.18        |
| 29.8             | 72.48              | 72.17        | 71.47        | 71.25        | 71.98        | 73.16        | 73.04        |
| 29.9             | 72.32              | 72.10        | 71.29        | 71.12        | 71.81        | 73.10        | 72.89        |
| 30.0             | 72.32              | 72.01        | 71.29        | 71.26        | 72.04        | 73.10        | 72.74        |
| 30.1             | 72.25              | 71.84        | 71.29        | 71.39        | 72.20        | 72.93        | 72.73        |
| 30.2             | 72.53              | 72.18        | 71.55        | 71.77        | 72.36        | 72.79        | 72.58        |
| 30.3             | 72.40              | 72.08        | 71.40        | 71.63        | 72.56        | 72.66        | 72.43        |
| 30.4             | 72.28              | 72.28        | 71.79        | 71.63        | 72.61        | 72.50        | 72.67        |
| 30.5             | 72.58              | 72.28        | 71.66        | 71.53        | 72.43        | 72.74        | 72.60        |
| 30.6             | 72.44              | 72.30        | 71.50        | 71.85        | 72.61        | 72.68        | 72.46        |
| 30.7             | 72.33              | 72.13        | 71.45        | 71.71        | 72.49        | 72.51        | 72.31        |
| 30.8             | 72.33              | 72.35        | 71.69        | 71.60        | 72.64        | 72.34        | 72.16        |
| 30.9             | 72.39              | 72.33        | 71.52        | 71.45        | 72.46        | 72.63        | 71.98        |
| 31.0             | 71.96              | 72.16        | 71.61        | 71.31        | 72.27        | 72.70        | 71.83        |
| 31.1             | 71.83              | 71.99        | 71.43        | 71.56        | 72.23        | 72.51        | 72.13        |
| 31.2             | 71.69              | 71.81        | 71.26        | 71.11        | 72.03        | 72.71        | 72.01        |
| 31.3             | 71.52              | 71.24        | 71.17        | 71.31        | 71.82        | 72.61        | 72.24        |
| 31.4             | 71.39              | 71.24        | 71.00        | 71.31        | 71.60        | 72.75        | 72.30        |
| 31.5             | 71.26              | 71.11        | 70.83        | 71.16        | 71.56        | 73.14        | 72.16        |
| 31.6             | 71.49              | 70.95        | 70.66        | 71.02        | 71.37        | 73.39        | 72.25        |
| 31.7             | 71.49              | 70.79        | 70.57        | 70.87        | 71.60        | 73.46        | 72.28        |
| 31.8             | 71.34              | 70.68        | 70.39        | 70.74        | 71.33        | 73.55        | 72.13        |
| 31.9             | 70.79              | 71.01        | 70.39        | 70.60        | 71.39        | 73.21        | 72.24        |
| 32.0             | 70.65              | 70.91        | 70.30        | 70.48        | 71.42        | 72.75        | 72.27        |
| 32.1             | 70.49              | 70.74        | 70.14        | 70.74        | 71.21        | 72.80        | 72.52        |
| 32.2             | 70.38              | 70.57        | 69.97        | 70.32        | 71.42        | 72.62        | 72.37        |
| 32.3             | 70.63              | 70.63        | 69.88        | 70.53        | 71.42        | 72.03        | 72.21        |
| 32.4             | 70.05              | 70.22        | 69.72        | 70.53        | 71.21        | 71.83        | 72.21        |
| 32.5             | 70.05              | 70.21        | 69.56        | 70.41        | 71.18        | 71.24        | 71.62        |
| 32.6             | 69.89              | 70.17        | 69.46        | 70.27        | 70.98        | 71.06        | 71.42        |
| 32.7             | 70.13              | 70.00        | 69.30        | 70.14        | 70.77        | 70.59        | 71.24        |
| 32.8             | 69.58              | 69.84        | 69.30        | 69.99        | 70.77        | 70.22        | 70.66        |
| 32.9             | 69.45              | 69.74        | 69.20        | 69.88        | 70.74        | 70.11        | <b>70.45</b> |
| 33.0             | 69.29              | 69.56        | 69.05        | 70.00        | 70.57        | 69.94        | 69.88        |

Table III  
**PRINCIPAL COMMUNITY COVERAGE**  
 prepared for  
**Woodville Communications, Inc.**  
 WKEP(FM) Woodville, Florida  
 Facility ID 89051  
 Ch. 250A 6 kW 95 m

| <b>Azimuth</b><br><b>° True</b> | <b><u>Distance to Contours</u></b>                             |  | <b>Percent</b><br><b>Increase</b> |
|---------------------------------|--|--|-----------------------------------|
|                                 | <b>70 dB<math>\mu</math></b><br><b>F(50,50)</b><br><b>(km)</b> | <b>70 dB<math>\mu</math></b><br><b>Longley-Rice</b><br><b>(km)</b> |                                   |
| 230                             | 16.2   | 25.7   | 58.6                              |
| 231                             | 16.2   | 24.5   | 51.2                              |
| 232                             | 16.2   | 24.5   | 51.2                              |
| 233                             | 16.2   | 24.4   | 50.6                              |
| 234                             | 16.2   | 24.5   | 51.2                              |
| 235                             | 16.2   | 24.5   | 51.2                              |
| 236                             | 16.2   | 26.3   | 62.3                              |
| 237                             | 16.2   | 25.9   | 59.9                              |
| 238                             | 16.2   | 26.0   | 60.5                              |
| 239                             | 16.2   | 26.2   | 61.7                              |
| 240                             | 16.2   | 26.6   | 64.2                              |
| 241                             | 16.2   | 26.7   | 64.8                              |
| 242                             | 16.2   | 26.9   | 66.0                              |
| 243                             | 16.2   | 27.1   | 67.3                              |
| 244                             | 16.2   | 26.9   | 66.0                              |
| 245                             | 16.2   | 24.5   | 51.2                              |
| 246                             | 16.2   | 24.5   | 51.2                              |
| 247                             | 16.1   | 24.5   | 52.2                              |
| 248                             | 16.1   | 24.6   | 52.8                              |
| 249                             | 16.1   | 24.5   | 52.2                              |
| 250                             | 16.1   | 24.9   | 54.7                              |
| 251                             | 16.1   | 25.5   | 58.4                              |
| 252                             | 16.1   | 26.2   | 62.7                              |
| 253                             | 16.1   | 26.6   | 65.2                              |
| 254                             | 16.0   | 25.9   | 61.9                              |
| 255                             | 16.0   | 25.8   | 61.3                              |
| 256                             | 16.0   | 28.4   | 77.5                              |
| 257                             | 16.0   | 32.9   | 105.6                             |