

# Exhibit 12.1 - Copy of Existing Antenna Structure Registration

**Registration Detail**

Reg Number	1013623	Status	Constructed
File Number	A0340938	Constructed	03/31/1997
FAA Study	95-ASO-1228-OE	EMI	No
FAA Issue Date	08/30/1995	NEPA	No

**Antenna Structure**

Structure Type TOWER - Free standing or Guyed Structure used for Communications Purposes

**Location** (in NAD83 Coordinates)

Lat/Long 28-18-41.0 N 081-27-35.0 W 3300 Old Vineland Rd.  
 City, State KISSIMMEE , FL  
 Center of  
 AM Array

**Heights (meters)**

Elevation of Site Above Mean Sea Level	Overall Height Above Ground (AGL)
22.8	50.3
Overall Height Above Mean Sea Level	Overall Height Above Ground w/o Appurtenances
73.1	45.7

**Painting and Lighting Specifications**

FAA Chapters 4, 5, 6, 8, 13  
 Paint and Light in Accordance with FAA Circular Number 70/7460-1H

**Owner & Contact Information**

FRN	0005793526	Licensee ID	L00132178
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**Owner**

SpectraSite Communications, Inc.  
 Attention To: Regional Property Manager - FL-1148  
 400 REGENCY FOREST DRIVE, SUITE 400  
 Cary , NC 27511

P: (919)468-0112  
 E: dale.rose@SpectraSite.Com

**Contact**

Eaton , Terrie  
 400 REGENCY FOREST DRIVE, SUITE 400  
 Cary , NC 27511

P: (919)468-0112  
 E: terrie.eaton@spectrasite.com

**Last Action Status**

Status	Constructed	Received	09/03/2003
Purpose	Notification	Entered	09/03/2003
Mode	Interactive		

**Related Applications**

09/03/2003 A0340938 - Notification (NT)  
 09/26/2002 A0283127 - Modification (MD)  
 11/27/1999 A0106225 - Change Owner (OC)  
 Related applications (5)

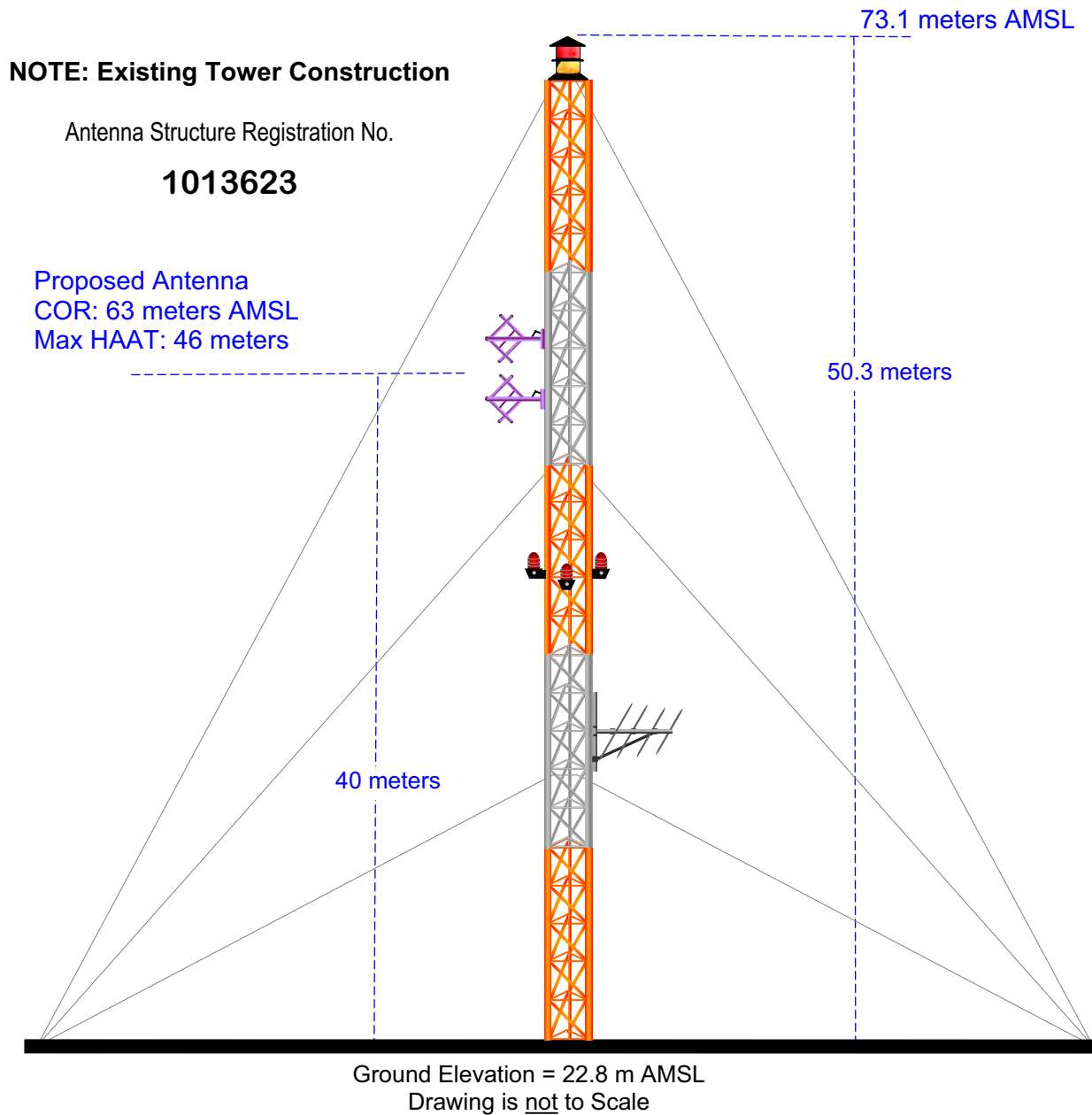
**Comments****Comments**

## Exhibit 12.2 (As Amended)

### Vertical Plan of Antenna System

The site is located at 3300 Old Vineland Rd.  
City of Kissimmee, Osceola County, Florida.

Site Location  
NL: 28° 18' 40"  
WL: 81° 27' 36"



**MUNN-REESE, INC.**  
Broadcast Engineering Consultants  
Coldwater, MI 49036

Lake Buena Vista

Proposed  
Proposed Operation  
Latitude: 28-18-40 N  
Longitude: 081-27-36 W  
ERP: 0.08 kW  
Channel: 241  
Frequency: 96.1 MHz  
AMSL Height: 63.0 m  
Horiz. Pattern: Omni  
Vert. Pattern: No  
Prop Model: None

60 dBu  
Total Population: 57,265  
Total Area: 129.05 sq. km

AP238  
BNPFT20030828AOI  
Latitude: 28-15-43 N  
Longitude: 081-27-06 W  
ERP: 0.01 kW  
Channel: 238  
Frequency: 95.5 MHz  
AMSL Height: 72.0 m  
Horiz. Pattern: Omni  
Vert. Pattern: No  
Prop Model: None

60 dBu  
Total Population: 12,136  
Total Area: 57.66 sq. km

## Exhibit 12.3 (As Amended) Proposed Coverage Map Study

Proposed

Kissimmee

AP238

Campbell

F(50-50) 60.0 dBu

F(50-50) 60.0 dBu

Loughman



**MUNN-REESE, INC.**  
Broadcast Engineering Consultants  
Coldwater, MI 49036  
1(517)278-7339

Scale 1:100,000

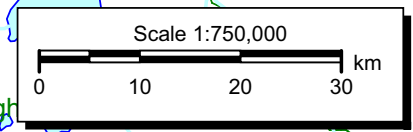
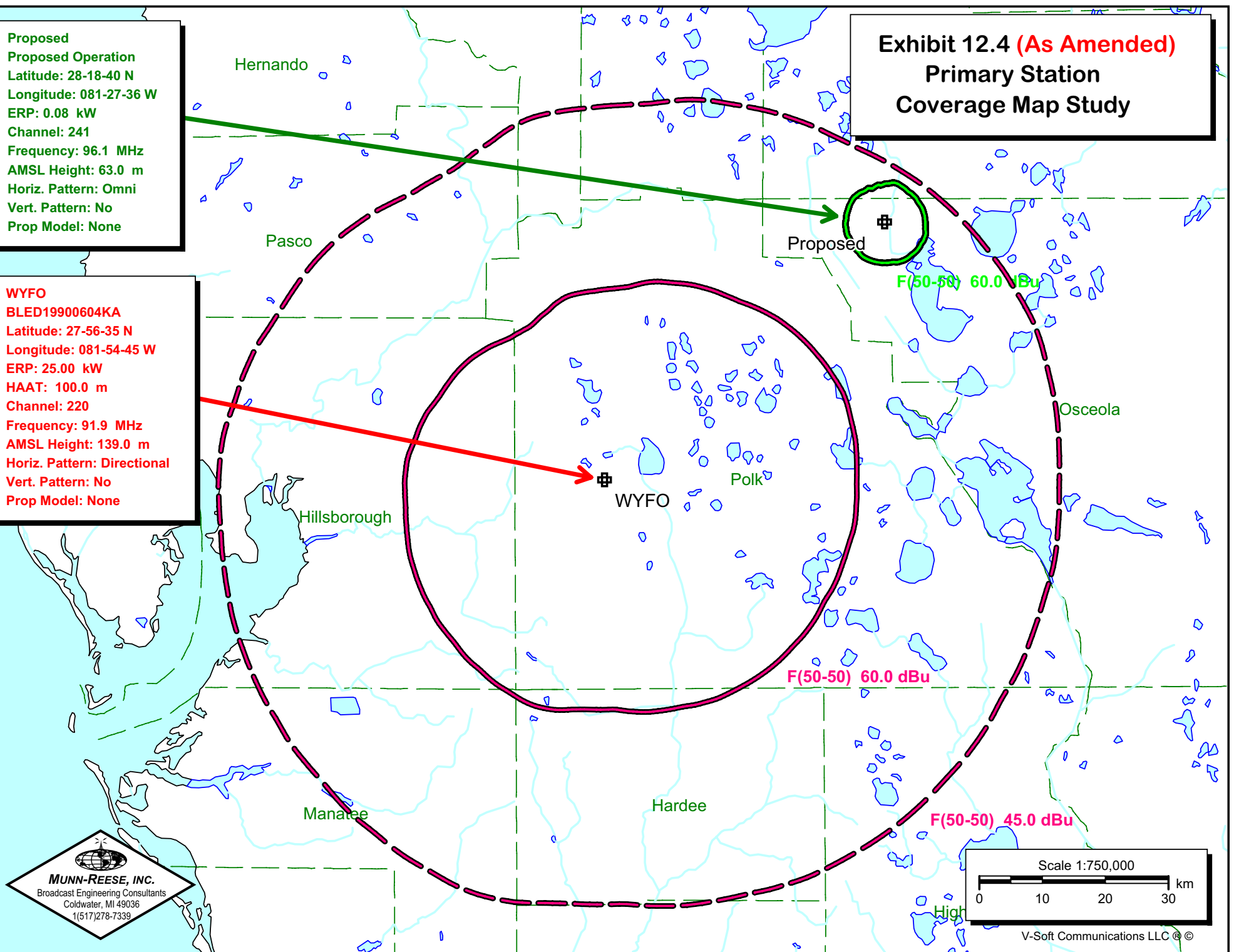
0 1 2 3 km

V-Soft Communications LLC ©

Proposed  
Proposed Operation  
Latitude: 28-18-40 N  
Longitude: 081-27-36 W  
ERP: 0.08 kW  
Channel: 241  
Frequency: 96.1 MHz  
AMSL Height: 63.0 m  
Horiz. Pattern: Omni  
Vert. Pattern: No  
Prop Model: None

WYFO  
BLED1990604KA  
Latitude: 27-56-35 N  
Longitude: 081-54-45 W  
ERP: 25.00 kW  
HAAT: 100.0 m  
Channel: 220  
Frequency: 91.9 MHz  
AMSL Height: 139.0 m  
Horiz. Pattern: Directional  
Vert. Pattern: No  
Prop Model: None

# Exhibit 12.4 (As Amended) Primary Station Coverage Map Study



# Exhibit 12.5 (As Amended)

## Tabulation of Proposed Allocation

Tabulations of contours will be supplied upon request.  
Bible Broadcasting Network, I

REFERENCE		CH# 241D - 96.1 MHz, Pwr= 0.08 kW, HAAT=42.8M, COR= 63 M								DISPLAY DATES	
28 18 40 N.		Average Protected F(50-50)= 6.3 km								DATA	04-22-06
81 27 36 W.		Ave. F(50-10) 40 dBu= 21.1 54 dBu= 9.1 80 dBu= 2.1 100 dBu= .6								SEARCH	04-27-06
CH CITY	CALL	TYPE STATE	AZI. <--	DIST FILE #	LAT. LNG.	Pwr(kW) HAAT (M)	COR (M) INT (km)	PRO (km) LICENSEE	*IN* (Overlap in km)	*OUT*	
241D Kissimmee	AP241	APP DC FL	0.0 0.0	0.00 BNPFT20030828AOI	28 18 40 81 27 36	0.004 40	64 9.2	2.9 Bible Broadcasting Network	-15.22*<	-22.93*<	
<b>243C</b>	<b>WHTQ<sup>1</sup></b>	<b>LIC NCY</b>	<b>54.1</b>	<b>48.92</b>	<b>28 34 07</b>	<b>100.000</b>	<b>463</b>	<b>83.3</b>	<b>30.53</b>	<b>-35.05*&lt;</b>	
<b>Orlando</b>		<b>FL</b>	<b>234.3</b>	<b>BLH20011219AAC</b>	<b>81 03 16</b>	<b>449</b>	<b>12.1</b>	<b>Cox Radio, Inc.</b>			
<b>238D</b>	<b>970117<sup>2</sup></b>	<b>APP CN</b>	<b>171.2</b>	<b>5.48</b>	<b>28 15 44</b>	<b>0.055</b>	<b>73</b>	<b>6.3</b>	<b>-1.52*&lt;</b>	<b>-1.49*&lt;</b>	
<b>Kissimmee</b>		<b>FL</b>	<b>351.2</b>	<b>BPFT19970117TJ</b>	<b>81 27 05</b>	<b>51</b>	<b>0.5</b>	<b>Hispanic Broadcast System</b>			
<b>Translator for WLAZFM, CLERMONT, FL</b>											
<b>238D</b>	<b>961031<sup>2</sup></b>	<b>APP CN</b>	<b>171.2</b>	<b>5.48</b>	<b>28 15 44</b>	<b>0.055</b>	<b>73</b>	<b>6.3</b>	<b>-1.52*&lt;</b>	<b>-1.49*&lt;</b>	
<b>Kissimmee</b>		<b>FL</b>	<b>351.2</b>	<b>BPFT19961031TA</b>	<b>81 27 05</b>	<b>51</b>	<b>0.5</b>	<b>Bible Broadcasting Network</b>			
<b>Translator for WYFO, Lakeland, FL.</b>											
<b>238D</b>	<b>AP238<sup>2</sup></b>	<b>APP C</b>	<b>171.5</b>	<b>5.51</b>	<b>28 15 43</b>	<b>0.055</b>	<b>72</b>	<b>6.3</b>	<b>-1.49*&lt;</b>	<b>-1.40*&lt;</b>	
<b>Kissimmee</b>		<b>FL</b>	<b>351.5</b>	<b>BNPFT20030317MKM</b>	<b>81 27 06</b>	<b>51</b>	<b>0.5</b>	<b>Bible Broadcasting Network</b>			
<b>238D</b>	<b>970117<sup>2</sup></b>	<b>APP DC</b>	<b>171.2</b>	<b>5.51</b>	<b>28 15 43</b>	<b>0.006</b>	<b>73</b>	<b>3.6</b>	<b>-1.13*&lt;</b>	<b>1.24</b>	
<b>Kissimmee</b>		<b>FL</b>	<b>351.2</b>	<b>BPFT19970117TJ</b>	<b>81 27 05</b>	<b>52</b>	<b>0.2</b>	<b>Hispanic Broadcast System,</b>			
<b>241A</b>	<b>WTMPFM<sup>3</sup></b>	<b>CP CX</b>	<b>282.6</b>	<b>83.85</b>	<b>28 28 22</b>	<b>2.800</b>	<b>180</b>	<b>28.8</b>	<b>-5.89&lt;</b>	<b>34.65</b>	
<b>Dade City</b>		<b>FL</b>	<b>102.2</b>	<b>BPH20020128AAO</b>	<b>82 17 45</b>	<b>155</b>	<b>83.6</b>	<b>Tama Radio Licenses Of Tam</b>			
<b>241A</b>	<b>WTMPFM<sup>3</sup></b>	<b>LIC ZCN</b>	<b>282.6</b>	<b>83.85</b>	<b>28 28 22</b>	<b>2.800</b>	<b>180</b>	<b>28.8</b>	<b>-5.89&lt;</b>	<b>34.65</b>	
<b>Dade City</b>		<b>FL</b>	<b>102.2</b>	<b>BLH19951212KA</b>	<b>82 17 45</b>	<b>155</b>	<b>83.6</b>	<b>Tama Radio Licenses Of Tam</b>			
241L1	NEW .C	CP	228.9	55.15	27 59 04	0.100	70	5.9	29.23	28.45	
Auburndale		FL	48.7	BNPL20010615AQW	81 53 01	34	19.7	Southeastern College Of Th			
241L1	NEW .C	CP	216.1	59.21	27 52 48	0.100	64	5.6	34.22	32.12	
Bartow		FL	36.0	BNPL20010615AAH	81 48 57	27	18.6	Ridge Area Radio Support G			
242D	W242AK	LIC CN	244.6	54.77	28 05 58	0.055	95	6.5	39.25	39.48	
Lakeland		FL	64.4	BLFT19971215TE	81 57 51	55	9.4	Radio Training Network, In			
240D	W240BV	LIC C	337.9	61.04	28 49 15	0.001	97	2.8	51.29	50.09	
Mount Dora		FL	157.8	BLFT20051006ABO	81 41 47	77	4.0	Central Florida Educationa			
240C3	WSJZFM	LIC C	123.5	98.88	27 49 05	25.000	94	37.0	34.28	52.17	
Sebastian		FL	303.9	BLH20010405AAB	80 37 18	88	57.8	Cumulus Licensing Llc			
239C1	WBTP	LIC CX	246.9	124.57	27 52 00	100.000	186	62.5	110.49	61.47	
Clearwater		FL	66.3	BMLH20041215ACC	82 37 27	186	7.9	Clear Channel Broadcasting			

ERP and HAAT on direct-line with reference station.

"\*"affixed to 'IN' or 'Out' values = site inside protected contour.

"<" = Contour Overlap

1 A second adjacent channel study towards WHTQ(FM) Orlando, FL has been included in **Exhibit 12.6**. As seen in the exhibit, there is a lack of population and housing or major roads around the transmitter site. Tabulations of contours will be supplied upon request.

2 Associated applications and filings will be displaced by this amendment. Particularly, 1997 applications filed by Hispanic Broadcasting System, Inc. are believed erroneously included in the Database as Hispanic Broadcasting failed to file a 2003 short form Major Change applications for continuations of these facilities.

3 Received interference is allowable for Translator Operation.

**MUNN-REESE, INC.**  
Broadcast Engineering Consultants  
Coldwater, MI 49036

## Exhibit 12.6

### 2nd Adjacent Channel Interference

### Study Toward WHTQ(FM) - Orlando, FL

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This special 2<sup>nd</sup> adjacent channel interference study toward WHTQ(FM), Orlando, FL has been prepared to show a lack of population, housing or major roads within the interference area as calculated.

The actual Proposed Interference Contour has been calculated to be no less than 114.5 dBu F(50:10) contour corresponding to the WHTQ, CH243C Orlando, FL 74.5 dBu F(50:50) contour. This represents the proposed interference contour which falls wholly within the 40:1 dBu ratio. In addition, a specially designed two bay SWR FMEC-2 with elements spaced  $1.4 \lambda$  (wavelength) apart will be employed to afford further protection through the vertical nulling effect.

**Exhibit 12.6a** is a tabulation of the proposed radiation levels taking into account the vertical radiation pattern as supplied by the antenna manufacturer. Distances to the nearest building, road or population center, in this instance Vineland Road, have been calculated over the relevant arc as noted in **Exhibit 12.6b**. From these distances and bearings, the depression angle to Vineland Road have been mathematically calculated and supplied in the tabulation. The vertical radiation relative field for these depression angles were then derived from the antenna manufacturer's spec sheets as included in **Exhibit 12.6d**. The composite relative field and associated ERP values were then mathematically calculated and included in the tabulation as well. Distances to the final 114.5 dBu f(50:10) contour accounting for the vertical radiation pattern were then calculated use the FCC Media Bureau website "FCC FM and TV Propagation Curves Calculations" Program. The program employed the Free Space Equation in conjunction with a 40 meter AGL height and individual HAAT values for each radial as noted in the tabulation. HAAT values were derived through inhouse V-Soft™ software employing the NED 03 second terrain database.

As noted in the supplied **Exhibit 12.6a** tabulation, the distance to the worst case interference contour as calculated on each relevant bearing falls well short of road, thus insuring full protection. A topographic map of the area and interference contour has been supplied in **Exhibit 12.6c**. Inclusion of the vertical radiation pattern over the remainder of the horizontal pattern is not necessary as the full 114.5 dBu f(50:10) contour without regard for vertical radiation is void of population, housing, or major roads, however in actuality, the reduced radiation as noted towards Vineland Road to the east is believed reduced over the entire 360° arc.

While full protection is believed afforded, the applicant is not opposed to the FCC automatically assigning a reduced power if FCC personnel deem further protection necessary.

## Exhibit 12.6a

### Tabulation of Interference Contour Accounting for Vertical Radiation Pattern

Antenna:		Two Bay 1.4 wavelength SWR FMEC-2						
Height of Antenna:		40 meters (AGL)						
Max ERP:		80 watts						
Radial (deg°T)	Distance to Road (meters)	Depression Angle From Horizon	Horiz. Relative Field	Vertical Relative Field	Composite Relative Field	ERP at Road Dist. (watts)	Individual Radial HAAT (meters)	Distance to Contour F.S.E. (meters)
0°	171	-13.2°	1.0	0.524	0.524	22.0	38.9	62
10°	134	-16.6°	1.0	0.298	0.298	7.1	42.2	37
20°	113	-19.5°	1.0	0.104	0.104	0.9	43.8	13
30°	100	-21.8°	1.0	0.058	0.058	0.3	41.7	13
40°	92	-23.5°	1.0	0.175	0.175	2.5	40.0	23
50°	88	-24.4°	1.0	0.224	0.224	4.0	41.6	26
60°	87	-24.7°	1.0	0.248	0.248	4.9	41.2	30
70°	88	-24.4°	1.0	0.224	0.224	4.0	43.3	26
80°	90	-24.0°	1.0	0.200	0.200	3.2	44.1	26
90°	89	-24.2°	1.0	0.212	0.212	3.6	44.8	26
100°	90	-24.0°	1.0	0.200	0.200	3.2	46.2	26
110°	95	-22.8°	1.0	0.124	0.124	1.2	49.4	19
120°	103	-21.2°	1.0	0.019	0.019	0.0	48.7	13
130°	116	-19.0°	1.0	0.132	0.132	1.4	49.8	19
140°	139	-16.1°	1.0	0.339	0.339	9.2	48.8	42

**Munn-Reese, Inc.**

Broadcast Engineering Consultants

Coldwater, MI 49036

**Exhibit 12.6b**  
**Map of Distances to**  
**Vineland Road for**  
**Interference Protection**  
**towards**  
**WHTQ(FM) - Orlando, FL**

**CH241D**

CH241D  
Freq: 96.1 MHz  
Latitude: 28-18-40 N  
Longitude: 081-27-36 W

Vineland Rd

0.0°T - 171 meters

10.0°T - 134 meters

20.0°T - 113 meters

30.0°T - 100 meters

40.0°T - 92 meters

50.0°T - 88 meters

60.0°T - 87 meters

70.0°T - 88 meters

80.0°T - 90 meters

90.0°T - 89 meters

100.0°T - 90 meters

110.0°T - 95 meters

120.0°T - 103 meters

130.0°T - 116 meters

140.0°T - 139 meters

Scale 1:1,250

0 0.03 0.07 0.1 km

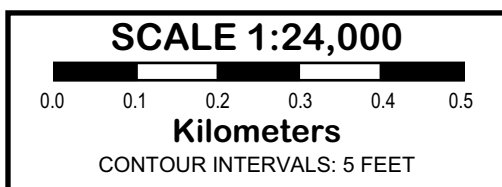
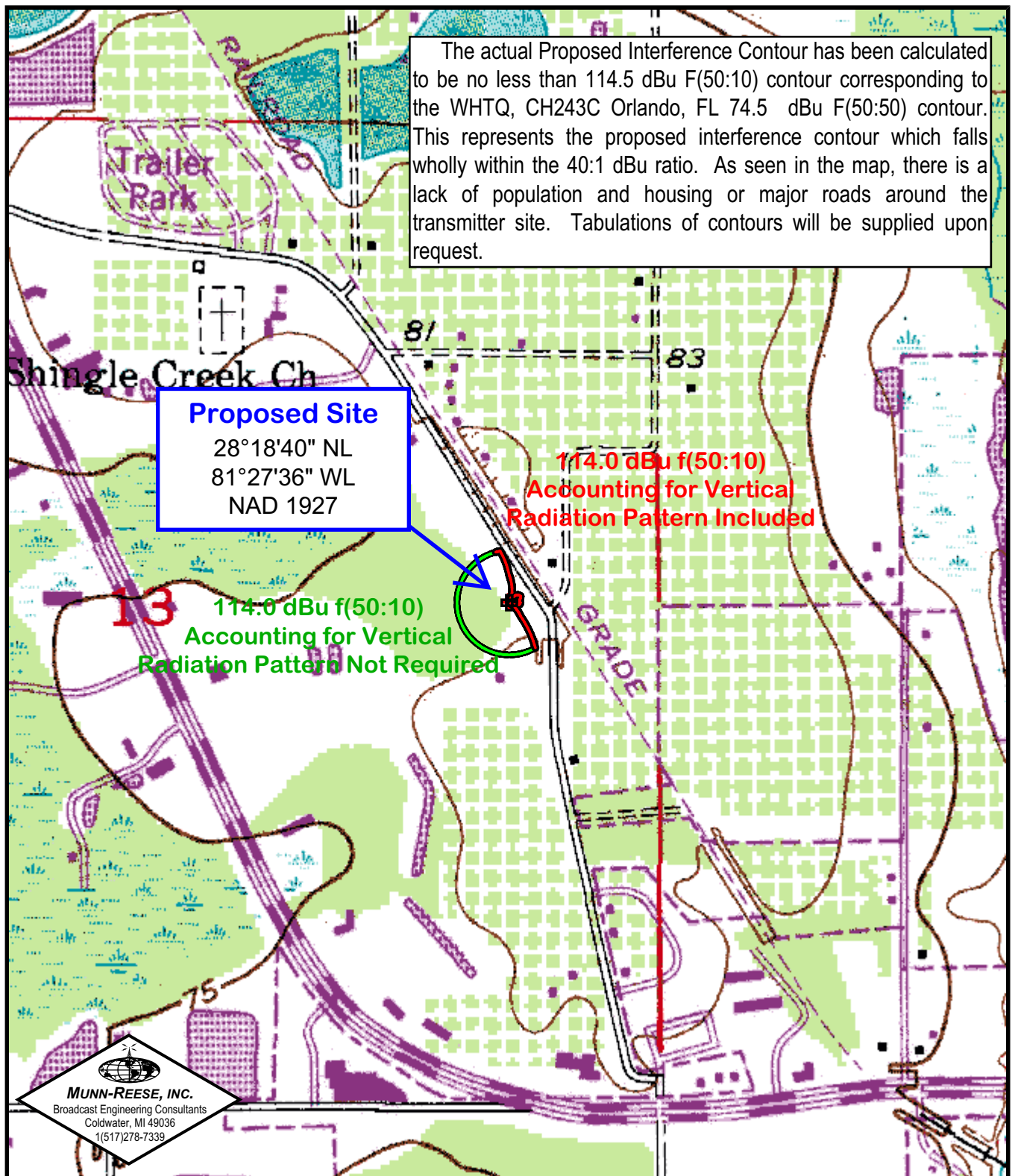


V-Soft Communications LLC ® ©



## Exhibit 12.6c

### 2nd Adjacent Channel Interference Map Toward WHTQ(FM) - Orlando, FL



KISSIMMEE, FLA

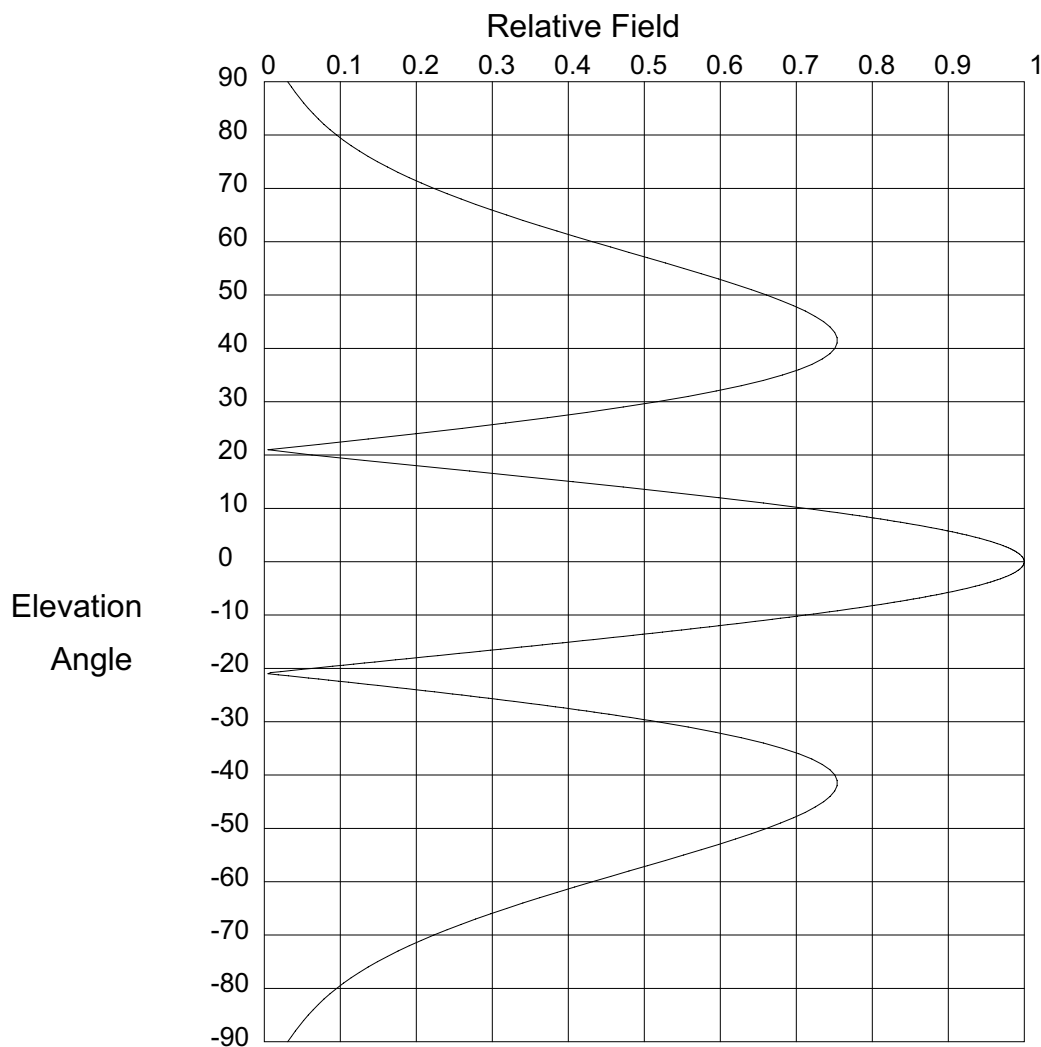
28081-C4-TF-024

1953

PHOTOREVISED 1987

DMA 4740 IV SW-SERIES V 847

## Exhibit 12.6d - Vertical Antenna Radiation Information



Elevation Pattern

Scale: Linear

Units: Field, Relative

### Systems With Reliability L.L.P.

CLIENT: *Bible Broadcasting Network*

Date: 4/27/2006

ANTENNA TYPE: FMEC/2 ( 1.4 Wave Spaced)

FREQUENCY: 96.1

PATTERN POL.: Circular

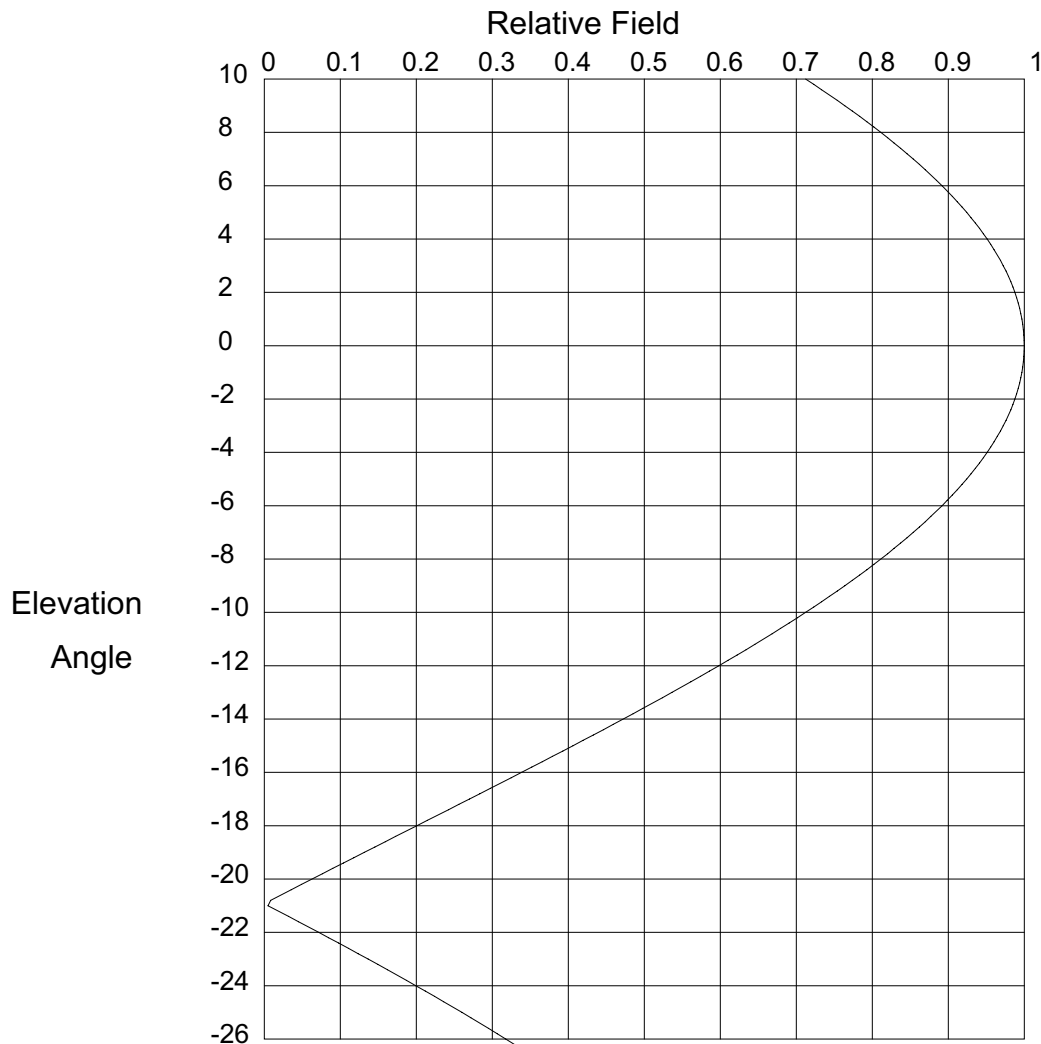
DIRECTIVITY(Peak): 1.701/2.306 dBd

Beam Tilt (Deg.) : 0

DIRECTIVITY(Horiz): 1.701/2.306 dBd

Null Fill(s)(%) : 0, 0, 0

## Exhibit 12.6d - Vertical Antenna Radiation Information



Elevation Pattern

Scale: Linear

Units: Field, Relative

### Systems With Reliability L.L.P.

CLIENT: *Bible Broadcasting Network*

Date: 4/27/2006

ANTENNA TYPE: FMEC/2 ( 1.4 Wave Spaced)

FREQUENCY: 96.1

PATTERN POL.: Circular

DIRECTIVITY(Peak): 1.701/2.306 dBd

Beam Tilt (Deg.) : 0

DIRECTIVITY(Horiz): 1.701/2.306 dBd

Null Fill(s)(%) : 0, 0, 0

# Exhibit 12.6d - Vertical Antenna Radiation Information

## Relative Field Tabulation

Elev. Angle	Rel. Fld(dB)	Elev. Angle	Rel. Fld(dB)	Elev. Angle	Rel. Fld(dB)
90.0	.031 (-30.2)	52.0	.62 (-4.152)	14.0	.472 (-6.514)
89.0	.036 (-28.915)	51.0	.641 (-3.862)	13.0	.537 (-5.408)
88.0	.041 (-27.757)	50.0	.661 (-3.596)	12.0	.598 (-4.463)
87.0	.046 (-26.688)	49.0	.68 (-3.355)	11.0	.657 (-3.649)
86.0	.052 (-25.687)	48.0	.697 (-3.141)	10.0	.712 (-2.946)
85.0	.058 (-24.735)	47.0	.712 (-2.953)	9.8	.723 (-2.817)
84.0	.064 (-23.822)	46.0	.725 (-2.793)	9.6	.733 (-2.692)
83.0	.071 (-22.939)	45.0	.736 (-2.662)	9.4	.744 (-2.571)
82.0	.079 (-22.079)	44.0	.745 (-2.561)	9.2	.754 (-2.453)
81.0	.087 (-21.24)	43.0	.751 (-2.492)	9.0	.764 (-2.339)
80.0	.095 (-20.419)	42.0	.754 (-2.456)	8.8	.774 (-2.228)
79.0	.105 (-19.613)	41.0	.754 (-2.455)	8.6	.783 (-2.12)
78.0	.115 (-18.822)	40.0	.751 (-2.49)	8.4	.793 (-2.016)
77.0	.125 (-18.046)	39.0	.744 (-2.566)	8.2	.802 (-1.915)
76.0	.137 (-17.284)	38.0	.734 (-2.683)	8.0	.811 (-1.817)
75.0	.149 (-16.536)	37.0	.721 (-2.846)	7.8	.82 (-1.722)
74.0	.162 (-15.803)	36.0	.703 (-3.058)	7.6	.829 (-1.63)
73.0	.176 (-15.084)	35.0	.682 (-3.325)	7.4	.837 (-1.541)
72.0	.191 (-14.381)	34.0	.657 (-3.651)	7.2	.846 (-1.454)
71.0	.207 (-13.694)	33.0	.628 (-4.045)	7.0	.854 (-1.371)
70.0	.223 (-13.023)	32.0	.595 (-4.515)	6.8	.862 (-1.29)
69.0	.241 (-12.368)	31.0	.558 (-5.072)	6.6	.87 (-1.213)
68.0	.259 (-11.731)	30.0	.517 (-5.732)	6.4	.877 (-1.137)
67.0	.278 (-11.111)	29.0	.472 (-6.514)	6.2	.885 (-1.065)
66.0	.298 (-10.508)	28.0	.424 (-7.448)	6.0	.892 (-0.995)
65.0	.319 (-9.925)	27.0	.373 (-8.574)	5.8	.899 (-0.928)
64.0	.34 (-9.359)	26.0	.318 (-9.955)	5.6	.905 (-0.863)
63.0	.363 (-8.813)	25.0	.26 (-11.698)	5.4	.912 (-0.801)
62.0	.385 (-8.286)	24.0	.20 (-13.998)	5.2	.918 (-0.741)
61.0	.408 (-7.778)	23.0	.137 (-17.287)	5.0	.924 (-0.684)
60.0	.432 (-7.29)	22.0	.072 (-22.889)	4.8	.93 (-0.629)
59.0	.456 (-6.823)	21.0	.005 (-45.907)	4.6	.936 (-0.577)
58.0	.48 (-6.376)	20.0	.063 (-24.033)	4.4	.941 (-0.527)
57.0	.504 (-5.951)	19.0	.132 (-17.612)	4.2	.946 (-0.48)
56.0	.528 (-5.546)	18.0	.201 (-13.943)	4.0	.951 (-0.434)
55.0	.552 (-5.164)	17.0	.27 (-11.373)	3.8	.956 (-0.392)
54.0	.575 (-4.804)	16.0	.339 (-9.406)	3.6	.96 (-0.351)
53.0	.598 (-4.466)	15.0	.406 (-7.824)	3.4	.965 (-0.313)

## Systems With Reliability L.L.P.

Page 1 of 3

CLIENT: *Bible Broadcasting Network*

Date: 4/27/2006

ANTENNA TYPE: FMEC/2 ( 1.4 Wave Spaced)

FREQUENCY: 96.1

PATTERN POL.: Circular

DIRECTIVITY(Peak): 1.701/2.306 dBd

Beam Tilt (Deg.) : 0

DIRECTIVITY(Horiz): 1.701/2.306 dBd

Null Fill(s)(%) : 0, 0, 0

# Exhibit 12.6d - Vertical Antenna Radiation Information

## Relative Field Tabulation

Elev. Angle	Rel. Fld(dB)	Elev. Angle	Rel. Fld(dB)	Elev. Angle	Rel. Fld(dB)
3.2	.969 (-0.277)	-4.4	.941 (-0.527)	-12.0	.598 (-4.463 )
3.0	.972 (-0.243)	-4.6	.936 (-0.577)	-12.2	.586 (-4.64 )
2.8	.976 (-0.211)	-4.8	.93 (-0.629)	-12.4	.574 (-4.824 )
2.6	.979 (-0.182)	-5.0	.924 (-0.684)	-12.6	.562 (-5.012 )
2.4	.982 (-0.155)	-5.2	.918 (-0.741)	-12.8	.549 (-5.207 )
2.2	.985 (-0.13)	-5.4	.912 (-0.801)	-13.0	.537 (-5.408 )
2.0	.988 (-0.107)	-5.6	.905 (-0.863)	-13.2	.524 (-5.615 )
1.8	.99 (-0.087)	-5.8	.899 (-0.928)	-13.4	.511 (-5.829 )
1.6	.992 (-0.069)	-6.0	.892 (-0.995)	-13.6	.498 (-6.05 )
1.4	.994 (-0.053)	-6.2	.885 (-1.065)	-13.8	.485 (-6.278 )
1.2	.996 (-0.039)	-6.4	.877 (-1.137)	-14.0	.472 (-6.514 )
1.0	.997 (-0.027)	-6.6	.87 (-1.213)	-14.2	.459 (-6.758 )
.8	.998 (-0.017)	-6.8	.862 (-1.29)	-14.4	.446 (-7.011 )
.6	.999 (-0.01)	-7.0	.854 (-1.371)	-14.6	.433 (-7.272 )
.4	1.00 (-0.004)	-7.2	.846 (-1.454)	-14.8	.42 (-7.543 )
.2	1.00 (-0.001)	-7.4	.837 (-1.541)	-15.0	.406 (-7.824 )
.0	1.00 (0)	-7.6	.829 (-1.63)	-15.2	.393 (-8.116 )
-.2	1.00 (-0.001)	-7.8	.82 (-1.722)	-15.4	.379 (-8.419 )
-.4	1.00 (-0.004)	-8.0	.811 (-1.817)	-15.6	.366 (-8.735 )
-.6	.999 (-0.01)	-8.2	.802 (-1.915)	-15.8	.352 (-9.063 )
-.8	.998 (-0.017)	-8.4	.793 (-2.016)	-16.0	.339 (-9.406 )
-1.0	.997 (-0.027)	-8.6	.783 (-2.12)	-16.2	.325 (-9.763 )
-1.2	.996 (-0.039)	-8.8	.774 (-2.228)	-16.4	.311 (-10.138 )
-1.4	.994 (-0.053)	-9.0	.764 (-2.339)	-16.6	.298 (-10.529 )
-1.6	.992 (-0.069)	-9.2	.754 (-2.453)	-16.8	.284 (-10.941 )
-1.8	.99 (-0.087)	-9.4	.744 (-2.571)	-17.0	.27 (-11.373 )
-2.0	.988 (-0.107)	-9.6	.733 (-2.692)	-17.2	.256 (-11.829 )
-2.2	.985 (-0.13)	-9.8	.723 (-2.817)	-17.4	.242 (-12.311 )
-2.4	.982 (-0.155)	-10.0	.712 (-2.946)	-17.6	.229 (-12.821 )
-2.6	.979 (-0.182)	-10.2	.702 (-3.078)	-17.8	.215 (-13.364 )
-2.8	.976 (-0.211)	-10.4	.691 (-3.215)	-18.0	.201 (-13.943 )
-3.0	.972 (-0.243)	-10.6	.68 (-3.355)	-18.2	.187 (-14.564 )
-3.2	.969 (-0.277)	-10.8	.668 (-3.5)	-18.4	.173 (-15.232 )
-3.4	.965 (-0.313)	-11.0	.657 (-3.649)	-18.6	.159 (-15.956 )
-3.6	.96 (-0.351)	-11.2	.645 (-3.802)	-18.8	.145 (-16.745 )
-3.8	.956 (-0.392)	-11.4	.634 (-3.96)	-19.0	.132 (-17.612 )
-4.0	.951 (-0.434)	-11.6	.622 (-4.123)	-19.2	.118 (-18.575 )
-4.2	.946 (-0.48)	-11.8	.61 (-4.29)	-19.4	.104 (-19.655 )

## Systems With Reliability L.L.P.

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CLIENT: *Bible Broadcasting Network*

Date: 4/27/2006

ANTENNA TYPE: FMEC/2 ( 1.4 Wave Spaced)

FREQUENCY: 96.1

PATTERN POL.: Circular

DIRECTIVITY(Peak): 1.701/2.306 dBd

Beam Tilt (Deg.) : 0

DIRECTIVITY(Horiz): 1.701/2.306 dBd

Null Fill(s)(%) : 0, 0, 0

# Exhibit 12.6d - Vertical Antenna Radiation Information

## Relative Field Tabulation

Elev. Angle	Rel. Fld(dB)	Elev. Angle	Rel. Fld(dB)	Elev. Angle	Rel. Fld(dB)
-19.6	.09 (-20.887)	-27.2	.383 (-8.331)	-54.0	.575 (-4.804 )
-19.8	.077 (-22.32)	-27.4	.394 (-8.097)	-55.0	.552 (-5.164 )
-20.0	.063 (-24.033)	-27.6	.404 (-7.872)	-56.0	.528 (-5.546 )
-20.2	.049 (-26.163)	-27.8	.414 (-7.656)	-57.0	.504 (-5.951 )
-20.4	.036 (-28.981)	-28.0	.424 (-7.448)	-58.0	.48 (-6.376 )
-20.6	.022 (-33.163)	-28.2	.434 (-7.247)	-59.0	.456 (-6.823 )
-20.8	.008 (-41.484)	-28.4	.444 (-7.054)	-60.0	.432 (-7.29 )
-21.0	.005 (-45.907)	-28.6	.454 (-6.868)	-61.0	.408 (-7.778 )
-21.2	.019 (-34.652)	-28.8	.463 (-6.688)	-62.0	.385 (-8.286 )
-21.4	.032 (-29.925)	-29.0	.472 (-6.514)	-63.0	.363 (-8.813 )
-21.6	.045 (-26.892)	-29.2	.482 (-6.347)	-64.0	.34 (-9.359 )
-21.8	.058 (-24.657)	-29.4	.491 (-6.185)	-65.0	.319 (-9.925 )
-22.0	.072 (-22.889)	-29.6	.50 (-6.029)	-66.0	.298 (-10.508 )
-22.2	.085 (-21.428)	-29.8	.508 (-5.878)	-67.0	.278 (-11.111 )
-22.4	.098 (-20.183)	-30.0	.517 (-5.732)	-68.0	.259 (-11.731 )
-22.6	.111 (-19.101)	-31.0	.558 (-5.072)	-69.0	.241 (-12.368 )
-22.8	.124 (-18.144)	-32.0	.595 (-4.515)	-70.0	.223 (-13.023 )
-23.0	.137 (-17.287)	-33.0	.628 (-4.045)	-71.0	.207 (-13.694 )
-23.2	.149 (-16.512)	-34.0	.657 (-3.651)	-72.0	.191 (-14.381 )
-23.4	.162 (-15.805)	-35.0	.682 (-3.325)	-73.0	.176 (-15.084 )
-23.6	.175 (-15.156)	-36.0	.703 (-3.058)	-74.0	.162 (-15.803 )
-23.8	.187 (-14.556)	-37.0	.721 (-2.846)	-75.0	.149 (-16.536 )
-24.0	.20 (-13.998)	-38.0	.734 (-2.683)	-76.0	.137 (-17.284 )
-24.2	.212 (-13.479)	-39.0	.744 (-2.566)	-77.0	.125 (-18.046 )
-24.4	.224 (-12.992)	-40.0	.751 (-2.49)	-78.0	.115 (-18.822 )
-24.6	.236 (-12.535)	-41.0	.754 (-2.455)	-79.0	.105 (-19.613 )
-24.8	.248 (-12.105)	-42.0	.754 (-2.456)	-80.0	.095 (-20.419 )
-25.0	.26 (-11.698)	-43.0	.751 (-2.492)	-81.0	.087 (-21.24 )
-25.2	.272 (-11.313)	-44.0	.745 (-2.561)	-82.0	.079 (-22.079 )
-25.4	.284 (-10.948)	-45.0	.736 (-2.662)	-83.0	.071 (-22.939 )
-25.6	.295 (-10.601)	-46.0	.725 (-2.793)	-84.0	.064 (-23.822 )
-25.8	.307 (-10.271)	-47.0	.712 (-2.953)	-85.0	.058 (-24.735 )
-26.0	.318 (-9.955)	-48.0	.697 (-3.141)	-86.0	.052 (-25.687 )
-26.2	.329 (-9.654)	-49.0	.68 (-3.355)	-87.0	.046 (-26.688 )
-26.4	.34 (-9.367)	-50.0	.661 (-3.596)	-88.0	.041 (-27.757 )
-26.6	.351 (-9.091)	-51.0	.641 (-3.862)	-89.0	.036 (-28.915 )
-26.8	.362 (-8.827)	-52.0	.62 (-4.152)	-90.0	.031 (-30.2 )
-27.0	.373 (-8.574)	-53.0	.598 (-4.466)	90.0	.00 (-50 )

## Systems With Reliability L.L.P.

Page 3 of 3

CLIENT: *Bible Broadcasting Network*  
 ANTENNA TYPE: FMEC/2 ( 1.4 Wave Spaced)  
 FREQUENCY: 96.1  
 PATTERN POL.: Circular  
 DIRECTIVITY(Peak): 1.701/2.306 dBd  
 DIRECTIVITY(Horiz): 1.701/2.306 dBd

Date: 4/27/2006

Beam Tilt (Deg.) : 0  
 Null Fill(s)(%) : 0, 0, 0