

**Exhibit 12.1 - Copy of Existing
Antenna Structure Registration****Registration Detail**

Reg Number	1031072	Status	Constructed
File Number	A0601646	Constructed	07/01/1996
FAA Study	2003-ASO-5106-OE	EMI	Yes
FAA Issue Date	12/11/2003	NEPA	No

Antenna Structure

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

Location (in NAD83 Coordinates)

Lat/Long	27-59-06.6 N 082-30-31.7 W	4613 N Grady Avenue (Tampa / 075099)
City, State	TAMPA , FL	
Center of AM Array		

Heights (meters)

Elevation of Site Above Mean Sea Level	Overall Height Above Ground (AGL)
8.8	42.9
Overall Height Above Mean Sea Level	Overall Height Above Ground w/o Appurtenances
51.7	42.9

Painting and Lighting Specifications

None

Owner & Contact Information

FRN	0011498342	Licensee ID	L00008376
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Owner

American Towers, Inc.
 Attention To: FAA/FCC Compliance Team
 1898 Leland Drive
 Marietta , GA 30067

P: (678)265-6770
 E:

Contact

Team , Compliance
 1898 Leland Drive
 Marietta , GA 30067

P: (678)265-6770
 E:

Last Action Status

Status	Constructed	Received	08/04/2008
Purpose	Admin Update	Entered	08/04/2008
Mode	Interactive		

Related Applications

08/04/2008	A0601646 - Admin Update (AU)
05/11/2006	A0503394 - Admin Update (AU)
05/10/2006	A0502332 - Admin Update (AU)
	Related applications (17)

Comments**Comments**

Exhibit 12.2

Vertical Plan of Antenna System

The site is located at 4613 N. Grady Avenue,
the city of Tampa, Hillsborough County, Florida.

Site Location (NAD 27)

NL: 27° 59' 06"

WL: 82° 30' 32"

NOTE: Existing Tower Construction

Antenna Structure Registration No.
1031072

Proposed Antenna
COR: 45 meters AMSL
HAAT: 45 meters

36 meters

51.7 meters AMSL

42.9 meters AGL

Ground Elevation = 8.8 m AMSL
Drawing is not to Scale

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

Exhibit 12.3

Present vs Proposed Service Contour Study

CH237D
Proposed Operation
Latitude: 27-59-06 N
Longitude: 082-30-32 W
ERP: 0.115 kW
Channel: 237
Frequency: 95.3 MHz
AMSL Height: 45.0 m
Horiz. Pattern: Directional
Vert. Pattern: No
Prop Model: None

60 dBu Contour
Total Population: 170,409
Total Area: 126.52 sq. km

W290BJ
BLFT20080204AAM
Latitude: 27-57-47.80 N
Longitude: 082-30-32.70 W
ERP: 0.002 kW
Channel: 290
Frequency: 105.9 MHz
AMSL Height: 15.0 m
Horiz. Pattern: Omni
Vert. Pattern: No
Prop Model: None

60 dBu Contour
Total Population: 14,728
Total Area: 14.78 sq. km

Proposed 60 dBu Contour

Present 60 dBu Contour

CH237D

W290BJ

Tampa

Scale 1:85,000

0 1 2 3 km



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

Exhibit 12.4

Proposed vs Primary Service Contour Study

WLPJ(FM)

WLPJ(FM)
BLED20030605ACV
Latitude: 28-16-58 N
Longitude: 082-42-43 W
ERP: 16.50 kW
HAAT: 93.0 m
Channel: 218
Frequency: 91.5 MHz
AMSL Height: 96.0 m
Horiz. Pattern: Directional
Vert. Pattern: No
Prop Model: None

CH237D
Proposed Operation
Latitude: 27-59-06 N
Longitude: 082-30-32 W
ERP: 0.12 kW
Channel: 237
Frequency: 95.3 MHz
AMSL Height: 45.0 m
Horiz. Pattern: Directional
Vert. Pattern: No
Prop Model: None

Primary 60 dBu Contour

Proposed 60 dBu Contour

CH237D

Primary 48 dBu Contour

Pinellas

Hillsborough

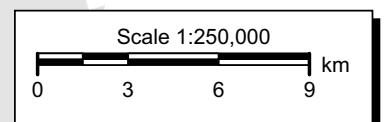


Exhibit 12.5

Tabulation of Proposed Allocation

Tabulations of contours will be supplied upon request.

Radio Training Network, Inc.

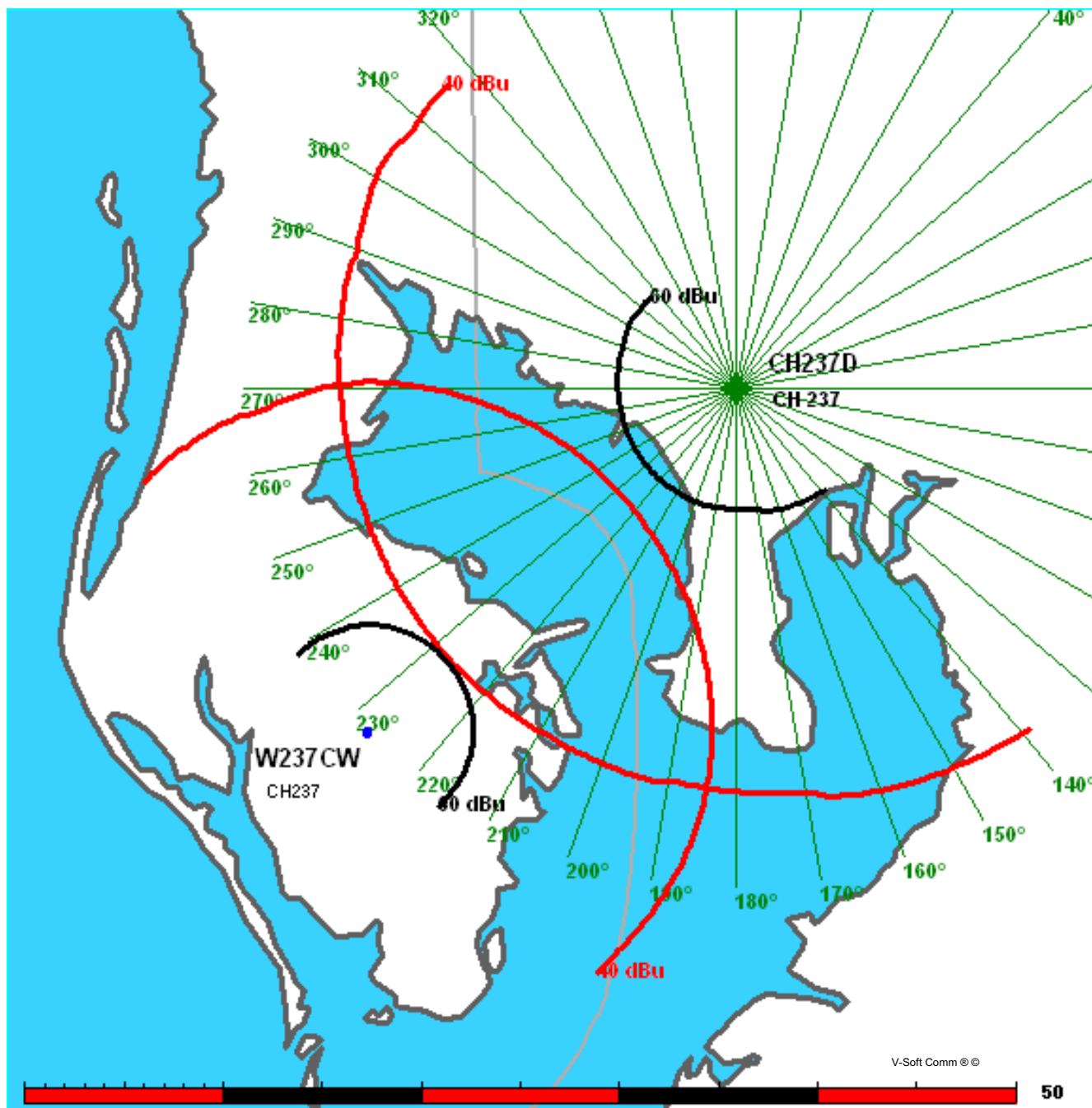
REFERENCE		CH# 237D - 95.3 MHz, Pwr= 0.115 kw, HAAT= 39.4 M, COR= 45 M							DISPLAY DATES		
27 59 06.0 N.		Average Protected F(50-50)= 6.63 km							DATA 08-09-08		
82 30 32.0 W.		Standard Directional							SEARCH 08-11-08		
CH	CALL	TYPE	ANT	AZI	DIST	LAT	PWR(kw)	INT(km)	PRO(km)	*IN*	*OUT*
CITY		STATE		<--	FILE #	LNG	HAAT(M)	COR(M)	LICENSEE	(Overlap	in km)
235C	WWRM	LIC _C_		127.0	30.54	27 49 10.0	100.000	12.4	85.5	11.30	-55.73*<
Tampa		FL		307.1	BLH20010521ABA	82 15 39.0	470	491	Cox Radio, Inc.		
239C1	WBTP	LIC _CX		220.7	17.34	27 52 00.0	100.000	7.9	62.4	3.51	-45.56*<
Clearwater		FL		40.7	BMLH20041215ACC	82 37 27.0	185	186	Clear Channel Broadcasting		
239C1	WBTP	CP _CX		218.3	18.20	27 51 23.0	100.000	8.0	62.8	4.28	-45.11*<
Clearwater		FL		38.3	BPH20061017ACN	82 37 26.0	189	190	Clear Channel Broadcasting		
237D	W237CW	LIC _C_		227.5	25.31	27 49 52.0	0.014	17.4	5.4	1.93	0.17
Pinellas Park		FL		47.4	BLFT20060315ABQ	82 41 56.0		74	Radio Training Network, In		
237A	WXCW	LIC _CX		351.2	95.26	28 50 03.0	6.000	86.8	28.4	2.46	46.80
Homosassa Springs		FL		171.1	BLH20030612AJI	82 39 34.0	100	102	Wxof, Inc.		
237C3	WPYO	LIC ZCX		57.2	121.64	28 34 27.0	12.000	103.7	37.8	11.84	63.35
Maitland		FL		237.6	BLH20040325AHN	81 27 46.0	144	173	Cox Radio, Inc.		
237C1	WOLZ	LIC NCN		158.4	176.35	26 30 18.0	79.000	147.7	55.6	22.33	99.43
Fort Myers		FL		338.7	BLH19950711KA	81 51 14.0	145	146	Clear Channel Broadcasting		
240D	629056	APP _C_		157.8	85.31	27 16 21.0	0.120	0.8	6.3	78.17	78.37
Sandy		FL		337.9	BNPFT20030313AIH	82 10 53.0		49	Calvary Chapel Church, Inc		
290A	WTZB	LIC NCN		172.1	98.97	27 06 01.0	4.300	10.2	47.6	9.5R	89.5M
Englewood		FL		352.2	BLH19990419KC	82 22 18.0	120	121	Citicasters Licenses, L.p.		
238C3	WNDD	APP NCX		17.2	150.72	29 16 57.0	9.800	48.4	31.0	96.25	111.06
Silver Springs		FL		197.5	BPH20070713AEN	82 02 49.0	102	120	Ocala Broadcasting Corpora		
One Step Application											
238C3	WNDD	RSV _		15.0	166.63	29 26 09.0	25.000	60.3	39.2	100.27	118.79
Silver Springs		FL		195.2		82 03 41.0	100	121	Ocala Broadcasting Corpora		
One Step Application											
238A	WNDD	LIC _CN		17.2	150.66	29 16 55.0	6.000	42.4	27.4	102.19	114.58
Silver Springs		FL		197.5	BLH19950501KA	82 02 50.0	100	118	Ocala Broadcasting Corpora		

Terrain database is USGS 03 SEC Distance + R = 73.215 or FCC Spacings in KM, Distance + M = Margin in KM
 Contour distances are on direct line to and from reference station. Reference zone = 2. with 3rd Adj channels.
 Ant Column: (D= DA Standard, Z= DA 73.215, N= Not DA 73.215, _= Omni), Polarization (C,H,V,E), Beamtilt(Y,N,X)
 "*"affixed to 'IN' or 'OUT' values = site inside protected contour.
 "<" = Contour Overlap
 Reference station has protected zone issue: AM tower

Denotes Second Adjacent Channel Waiver requests toward WWRM(FM) and WBTP(FM) Lic & CP.
 Full Protection will be afforded all facilities as noted in **Exhibit 12.8**.

CH237D CH 237 D
0.115 kW 45 M COR DA
Prot. = 60 dBu
Intef. = 40 dBu

W237CW CH 237 D BLFT20060315ABQ
0.014 kW, 74 M COR
Prot. = 60 dBu
Intef. = 40 dBu



Munn-Reese, Inc.
Broadcast Engineering Consultants
Coldwater, MI 49036

Tabulations of contours will be supplied upon request.

Exhibit 12.6 - Contour Protection Studies Toward Select Station(s)

08-11-2008

USGS 03 SEC Terrain Data

FMOver Analysis

CH237D

Channel = 237D

Max ERP = 0.115 kW

RCAMSL = 45 M

N. Lat. 27 59 06.0

W. Lng. 82 30 32.0

Protected

60 dBu

W237CW

BLFT20060315ABQ

Channel = 237D

Max ERP = 0.0135 kW

RCAMSL = 74 M

N. Lat. 27 49 52.0

W. Lng. 82 41 56.0

Interfering

40 dBu

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
183.0	000.0652	0042.5	006.0	058.8	000.0135	0073.1	021.5	36.66
184.0	000.0647	0042.6	006.0	058.6	000.0135	0073.1	021.4	36.73
185.0	000.0642	0042.6	006.0	058.4	000.0135	0073.1	021.3	36.79
186.0	000.0637	0042.6	006.0	058.2	000.0135	0073.1	021.2	36.85
187.0	000.0631	0042.7	006.0	058.0	000.0135	0073.1	021.2	36.91
188.0	000.0626	0042.7	005.9	057.8	000.0135	0073.1	021.1	36.97
189.0	000.0621	0042.9	005.9	057.7	000.0135	0073.1	021.0	37.03
190.0	000.0616	0043.3	006.0	057.5	000.0135	0073.1	020.9	37.10
191.0	000.0612	0043.6	006.0	057.3	000.0135	0073.1	020.8	37.17
192.0	000.0609	0043.7	006.0	057.1	000.0135	0073.1	020.8	37.23
193.0	000.0605	0043.9	006.0	056.9	000.0135	0073.1	020.7	37.29
194.0	000.0601	0044.1	006.0	056.7	000.0135	0073.1	020.6	37.36
195.0	000.0598	0044.3	006.0	056.5	000.0135	0073.1	020.5	37.41
196.0	000.0594	0044.4	006.0	056.3	000.0135	0073.1	020.5	37.47
197.0	000.0591	0044.4	006.0	056.1	000.0135	0073.1	020.4	37.52
198.0	000.0587	0044.4	006.0	055.8	000.0135	0073.1	020.3	37.56
199.0	000.0583	0044.4	006.0	055.6	000.0135	0073.1	020.3	37.61
200.0	000.0580	0044.4	006.0	055.3	000.0135	0073.1	020.2	37.66
201.0	000.0579	0044.4	005.9	055.1	000.0135	0073.1	020.2	37.70
202.0	000.0577	0044.4	005.9	054.8	000.0135	0073.1	020.1	37.75
203.0	000.0576	0044.4	005.9	054.6	000.0135	0073.1	020.1	37.79
204.0	000.0575	0044.4	005.9	054.3	000.0135	0073.1	020.0	37.84
205.0	000.0574	0044.4	005.9	054.0	000.0135	0073.1	020.0	37.88
206.0	000.0573	0044.4	005.9	053.8	000.0135	0073.1	019.9	37.92
207.0	000.0572	0044.4	005.9	053.5	000.0135	0073.1	019.9	37.95
208.0	000.0571	0044.5	005.9	053.2	000.0135	0073.1	019.8	37.99
209.0	000.0569	0044.5	005.9	053.0	000.0135	0073.1	019.8	38.02
210.0	000.0568	0044.5	005.9	052.7	000.0135	0073.1	019.7	38.06
211.0	000.0568	0044.5	005.9	052.4	000.0135	0073.1	019.7	38.09
212.0	000.0568	0044.5	005.9	052.1	000.0135	0073.1	019.7	38.12
213.0	000.0568	0044.5	005.9	051.9	000.0135	0073.1	019.6	38.15
214.0	000.0568	0044.5	005.9	051.6	000.0135	0073.1	019.6	38.18
215.0	000.0568	0044.5	005.9	051.3	000.0135	0073.1	019.6	38.21
216.0	000.0568	0044.5	005.9	051.0	000.0135	0073.1	019.5	38.23
217.0	000.0568	0044.5	005.9	050.7	000.0135	0073.1	019.5	38.25
218.0	000.0568	0044.6	005.9	050.4	000.0135	0073.2	019.5	38.28
219.0	000.0568	0044.6	005.9	050.1	000.0135	0073.2	019.5	38.29

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
220.0	000.0568	0044.6	005.9	049.8	000.0135	0073.2	019.4	38.31
221.0	000.0568	0044.6	005.9	049.5	000.0135	0073.2	019.4	38.33
222.0	000.0568	0044.6	005.9	049.2	000.0135	0073.2	019.4	38.34
223.0	000.0568	0044.6	005.9	048.9	000.0135	0073.2	019.4	38.35
224.0	000.0568	0044.6	005.9	048.6	000.0135	0073.2	019.4	38.36
225.0	000.0568	0044.6	005.9	048.3	000.0135	0073.2	019.4	38.37
226.0	000.0568	0044.6	005.9	048.0	000.0135	0073.2	019.4	38.37
227.0	000.0568	0044.6	005.9	047.7	000.0135	0073.2	019.4	38.37
228.0	000.0568	0044.6	005.9	047.4	000.0135	0073.2	019.4	38.37
229.0	000.0568	0044.6	005.9	047.1	000.0135	0073.2	019.4	38.37
230.0	000.0568	0044.7	005.9	046.7	000.0135	0073.2	019.4	38.37
231.0	000.0568	0044.7	005.9	046.4	000.0135	0073.2	019.4	38.37
232.0	000.0568	0044.7	005.9	046.1	000.0135	0073.2	019.4	38.36
233.0	000.0568	0044.7	005.9	045.8	000.0135	0073.2	019.4	38.35
234.0	000.0568	0044.7	005.9	045.5	000.0135	0073.2	019.4	38.34
235.0	000.0568	0044.7	005.9	045.2	000.0135	0073.2	019.4	38.33
236.0	000.0568	0044.7	005.9	044.9	000.0135	0073.2	019.5	38.31
237.0	000.0568	0044.6	005.9	044.6	000.0135	0073.2	019.5	38.29
238.0	000.0568	0044.6	005.9	044.3	000.0135	0073.2	019.5	38.28
239.0	000.0568	0044.7	005.9	044.0	000.0135	0073.2	019.5	38.26
240.0	000.0568	0044.7	005.9	043.7	000.0135	0073.3	019.5	38.24
241.0	000.0568	0044.7	005.9	043.4	000.0135	0073.3	019.6	38.21
242.0	000.0568	0044.7	005.9	043.2	000.0135	0073.3	019.6	38.19
243.0	000.0568	0044.7	005.9	042.9	000.0135	0073.3	019.6	38.16
244.0	000.0568	0044.7	005.9	042.6	000.0135	0073.3	019.7	38.13
245.0	000.0568	0044.6	005.9	042.3	000.0135	0073.3	019.7	38.10
246.0	000.0568	0044.6	005.9	042.0	000.0135	0073.3	019.8	38.07
247.0	000.0568	0044.6	005.9	041.8	000.0135	0073.3	019.8	38.03
248.0	000.0568	0044.6	005.9	041.5	000.0135	0073.3	019.9	38.00
249.0	000.0568	0044.6	005.9	041.2	000.0135	0073.3	019.9	37.96
250.0	000.0568	0044.6	005.9	041.0	000.0135	0073.3	019.9	37.92
251.0	000.0570	0044.6	005.9	040.7	000.0135	0073.3	020.0	37.88
252.0	000.0571	0044.6	005.9	040.4	000.0135	0073.3	020.0	37.84
253.0	000.0572	0044.6	005.9	040.2	000.0135	0073.3	020.1	37.79
254.0	000.0574	0044.6	006.0	039.9	000.0135	0073.3	020.2	37.75
255.0	000.0575	0044.6	006.0	039.7	000.0135	0073.3	020.2	37.70
256.0	000.0576	0044.6	006.0	039.4	000.0135	0073.3	020.3	37.65
257.0	000.0577	0044.5	006.0	039.2	000.0135	0073.3	020.3	37.60
258.0	000.0579	0044.5	006.0	039.0	000.0135	0073.3	020.4	37.55
259.0	000.0580	0044.5	006.0	038.7	000.0135	0073.3	020.5	37.50
260.0	000.0581	0044.5	006.0	038.5	000.0135	0073.3	020.5	37.45
261.0	000.0585	0044.4	006.0	038.3	000.0135	0073.3	020.6	37.40
262.0	000.0588	0044.4	006.0	038.1	000.0135	0073.3	020.7	37.34
263.0	000.0592	0044.4	006.0	037.9	000.0135	0073.4	020.7	37.29
264.0	000.0595	0044.3	006.0	037.7	000.0135	0073.4	020.8	37.23
265.0	000.0599	0044.2	006.0	037.5	000.0135	0073.4	020.9	37.17
266.0	000.0602	0044.2	006.0	037.2	000.0135	0073.4	020.9	37.11
267.0	000.0606	0044.2	006.0	037.0	000.0135	0073.4	021.0	37.05
268.0	000.0609	0044.2	006.0	036.9	000.0135	0073.4	021.1	36.99
269.0	000.0613	0044.1	006.0	036.7	000.0135	0073.4	021.2	36.93
270.0	000.0616	0044.1	006.0	036.5	000.0135	0073.4	021.3	36.87

08-11-2008 USGS 03 SEC Terrain Data

W237CW BLFT20060315ABQ

Channel = 237D
Max ERP = 0.0135 kW
RCAMSL = 74 M
N. Lat. 27 49 52.0
W. Lng. 82 41 56.0
Protected
60 dBu

CH237D

Channel = 237D
Max ERP = 0.115 kW
RCAMSL = 45 M
N. Lat. 27 59 06.0
W. Lng. 82 30 32.0
Interfering
40 dBu

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
002.0	000.0135	0073.0	005.4	237.6	000.0568	0044.6	021.9	38.30
003.0	000.0135	0073.0	005.4	237.5	000.0568	0044.6	021.8	38.36
004.0	000.0135	0072.9	005.4	237.3	000.0568	0044.6	021.8	38.42
005.0	000.0135	0073.0	005.4	237.2	000.0568	0044.6	021.7	38.48
006.0	000.0135	0073.0	005.4	237.0	000.0568	0044.6	021.6	38.54
007.0	000.0135	0072.9	005.4	236.9	000.0568	0044.6	021.5	38.59
008.0	000.0135	0072.9	005.3	236.7	000.0568	0044.6	021.5	38.65
009.0	000.0135	0072.9	005.4	236.5	000.0568	0044.6	021.4	38.70
010.0	000.0135	0072.9	005.4	236.4	000.0568	0044.6	021.3	38.76
011.0	000.0135	0072.9	005.4	236.2	000.0568	0044.7	021.3	38.81
012.0	000.0135	0072.9	005.4	236.0	000.0568	0044.7	021.2	38.86
013.0	000.0135	0072.9	005.4	235.8	000.0568	0044.7	021.1	38.91
014.0	000.0135	0072.9	005.4	235.6	000.0568	0044.7	021.1	38.96
015.0	000.0135	0073.0	005.4	235.4	000.0568	0044.7	021.0	39.01
016.0	000.0135	0073.0	005.4	235.2	000.0568	0044.7	020.9	39.06
017.0	000.0135	0073.0	005.4	235.0	000.0568	0044.7	020.9	39.11
018.0	000.0135	0073.0	005.4	234.8	000.0568	0044.7	020.8	39.16
019.0	000.0135	0073.0	005.4	234.6	000.0568	0044.7	020.8	39.20
020.0	000.0135	0073.0	005.4	234.4	000.0568	0044.7	020.7	39.24
021.0	000.0135	0073.0	005.4	234.2	000.0568	0044.7	020.7	39.29
022.0	000.0135	0073.0	005.4	234.0	000.0568	0044.7	020.6	39.33
023.0	000.0135	0073.0	005.4	233.8	000.0568	0044.7	020.6	39.37
024.0	000.0135	0073.0	005.4	233.5	000.0568	0044.7	020.5	39.40
025.0	000.0135	0073.0	005.4	233.3	000.0568	0044.7	020.5	39.44
026.0	000.0135	0073.1	005.4	233.1	000.0568	0044.7	020.4	39.48
027.0	000.0135	0073.1	005.4	232.8	000.0568	0044.7	020.4	39.51
028.0	000.0135	0073.2	005.4	232.6	000.0568	0044.7	020.3	39.55
029.0	000.0135	0073.2	005.4	232.4	000.0568	0044.6	020.3	39.58
030.0	000.0135	0073.2	005.4	232.1	000.0568	0044.7	020.3	39.61
031.0	000.0135	0073.3	005.4	231.9	000.0568	0044.7	020.2	39.64
032.0	000.0135	0073.3	005.4	231.6	000.0568	0044.7	020.2	39.66
033.0	000.0135	0073.3	005.4	231.4	000.0568	0044.7	020.2	39.69
034.0	000.0135	0073.3	005.4	231.1	000.0568	0044.7	020.1	39.71
035.0	000.0135	0073.4	005.4	230.9	000.0568	0044.7	020.1	39.74

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
036.0	000.0135	0073.4	005.4	230.6	000.0568	0044.7	020.1	39.76
037.0	000.0135	0073.4	005.4	230.4	000.0568	0044.7	020.1	39.77
038.0	000.0135	0073.4	005.4	230.1	000.0568	0044.7	020.0	39.79
039.0	000.0135	0073.3	005.4	229.8	000.0568	0044.6	020.0	39.81
040.0	000.0135	0073.3	005.4	229.6	000.0568	0044.6	020.0	39.82
041.0	000.0135	0073.3	005.4	229.3	000.0568	0044.6	020.0	39.83
042.0	000.0135	0073.3	005.4	229.0	000.0568	0044.6	020.0	39.84
043.0	000.0135	0073.3	005.4	228.8	000.0568	0044.6	020.0	39.85
044.0	000.0135	0073.2	005.4	228.5	000.0568	0044.6	020.0	39.85
045.0	000.0135	0073.2	005.4	228.2	000.0568	0044.6	020.0	39.86
046.0	000.0135	0073.2	005.4	228.0	000.0568	0044.6	020.0	39.86
047.0	000.0135	0073.2	005.4	227.7	000.0568	0044.6	019.9	39.86
048.0	000.0135	0073.2	005.4	227.4	000.0568	0044.6	019.9	39.86
049.0	000.0135	0073.2	005.4	227.2	000.0568	0044.6	020.0	39.86
050.0	000.0135	0073.2	005.4	226.9	000.0568	0044.6	020.0	39.86
051.0	000.0135	0073.1	005.4	226.6	000.0568	0044.6	020.0	39.85
052.0	000.0135	0073.1	005.4	226.4	000.0568	0044.6	020.0	39.84
053.0	000.0135	0073.1	005.4	226.1	000.0568	0044.6	020.0	39.84
054.0	000.0135	0073.1	005.4	225.8	000.0568	0044.6	020.0	39.83
055.0	000.0135	0073.1	005.4	225.6	000.0568	0044.6	020.0	39.81
056.0	000.0135	0073.1	005.4	225.3	000.0568	0044.6	020.0	39.80
057.0	000.0135	0073.1	005.4	225.0	000.0568	0044.6	020.0	39.78
058.0	000.0135	0073.1	005.4	224.8	000.0568	0044.6	020.1	39.77
059.0	000.0135	0073.1	005.4	224.5	000.0568	0044.6	020.1	39.75
060.0	000.0135	0073.1	005.4	224.3	000.0568	0044.6	020.1	39.73
061.0	000.0135	0073.1	005.4	224.0	000.0568	0044.6	020.1	39.71
062.0	000.0135	0073.2	005.4	223.7	000.0568	0044.6	020.2	39.69
063.0	000.0135	0073.2	005.4	223.5	000.0568	0044.6	020.2	39.66
064.0	000.0135	0073.2	005.4	223.2	000.0568	0044.6	020.2	39.64
065.0	000.0135	0073.3	005.4	223.0	000.0568	0044.6	020.3	39.61
066.0	000.0135	0073.3	005.4	222.7	000.0568	0044.6	020.3	39.58
067.0	000.0135	0073.4	005.4	222.5	000.0568	0044.6	020.3	39.55
068.0	000.0135	0073.5	005.4	222.3	000.0568	0044.6	020.4	39.52
069.0	000.0135	0073.5	005.4	222.0	000.0568	0044.6	020.4	39.49
070.0	000.0135	0073.5	005.4	221.8	000.0568	0044.6	020.4	39.45
071.0	000.0135	0073.4	005.4	221.6	000.0568	0044.6	020.5	39.41
072.0	000.0135	0073.4	005.4	221.3	000.0568	0044.6	020.5	39.37
073.0	000.0135	0073.3	005.4	221.1	000.0568	0044.6	020.6	39.33
074.0	000.0135	0073.3	005.4	220.9	000.0568	0044.6	020.6	39.29
075.0	000.0135	0073.3	005.4	220.7	000.0568	0044.6	020.7	39.25
076.0	000.0135	0073.3	005.4	220.5	000.0568	0044.6	020.7	39.20
077.0	000.0135	0073.3	005.4	220.3	000.0568	0044.6	020.8	39.16
078.0	000.0135	0073.3	005.4	220.1	000.0568	0044.6	020.9	39.11
079.0	000.0135	0073.3	005.4	219.9	000.0568	0044.6	020.9	39.07
080.0	000.0135	0073.3	005.4	219.7	000.0568	0044.6	021.0	39.02
081.0	000.0135	0073.3	005.4	219.5	000.0568	0044.6	021.0	38.97
082.0	000.0135	0073.3	005.4	219.3	000.0568	0044.6	021.1	38.92
083.0	000.0135	0073.3	005.4	219.1	000.0568	0044.6	021.2	38.87
084.0	000.0135	0073.3	005.4	218.9	000.0568	0044.6	021.2	38.81
085.0	000.0135	0073.3	005.4	218.7	000.0568	0044.6	021.3	38.76
086.0	000.0135	0073.3	005.4	218.6	000.0568	0044.6	021.4	38.71

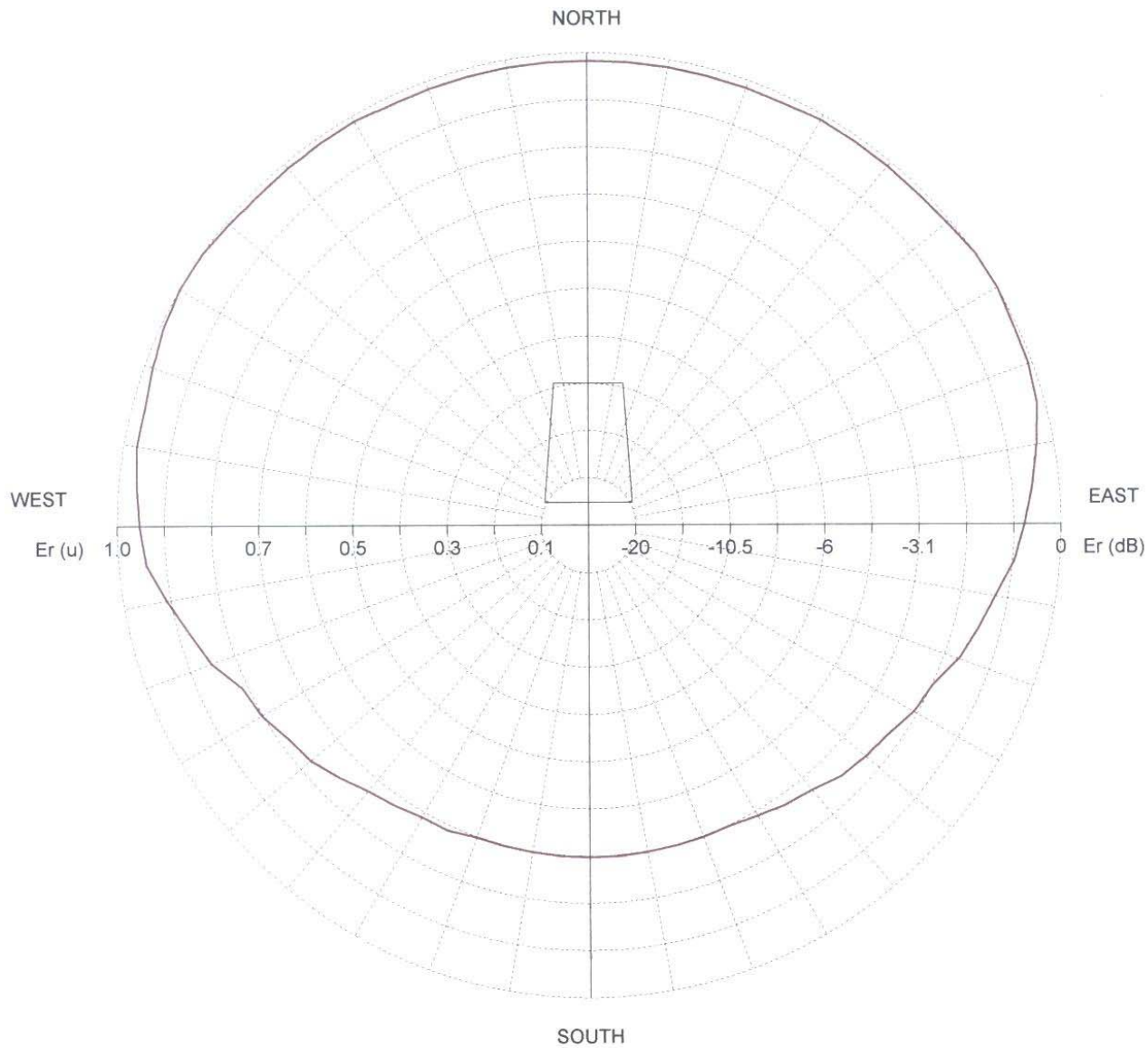
Exhibit 12.7 - Directional Antenna Pattern as Supplied by Antenna Manufacturer (Actual Pattern Rotation 50°T)

TX station: BGK77/2

Site name:

Frequency: 98.00 MHz

Horizontal diagram



—— 0.0° depres. (Total antenna), Gain (dBd): 0.2 ERP T.max (KW): 1.037

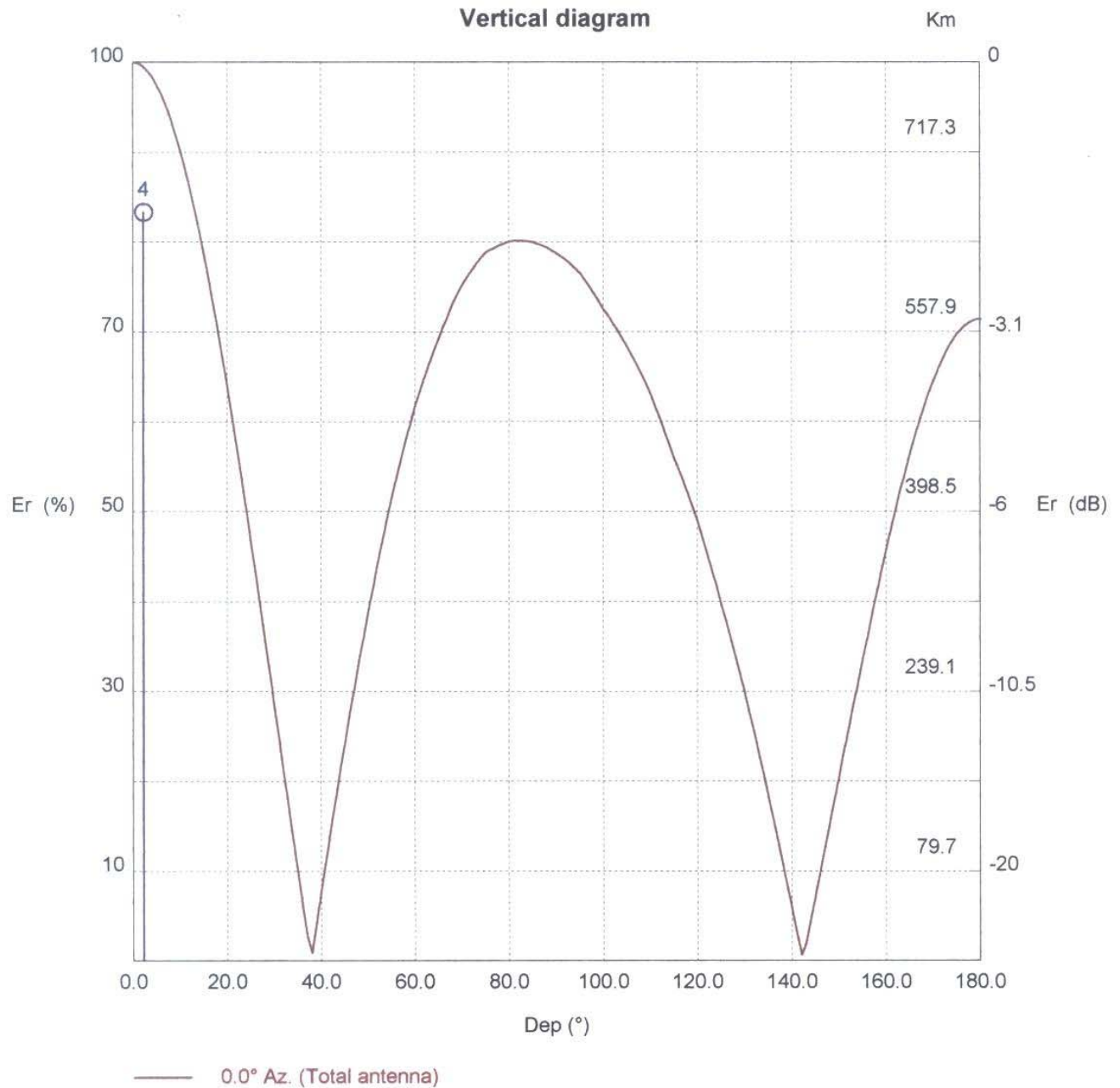
ERP E.max (KW): 0.805

Exhibit 12.7 - Directional Antenna Pattern as Supplied by Antenna Manufacturer (Actual Pattern Rotation 50°T)

TX station: BGK77/2

Site name:

Frequency: 98.00 MHz



Distance scale for field level equal to 0 dB μ V/m. (Free space)

Exhibit 12.7 - Directional Antenna Pattern as Supplied by Antenna Manufacturer (Actual Pattern Rotation 50°T)

TX station: BGK77/2

Site name:

Frequency: 98.00 MHz

Vertical diagram at an azimuth of 0° degrees

Dep (°)	Er (%)	ERP (W)	Dep (°)	Er (%)	ERP (W)	Dep (°)	Er (%)	ERP (W)
0.0	100.0	778.1	60.0	61.7	295.8	120.0	48.9	185.7
2.0	99.6	771.9	62.0	64.9	328.0	122.0	45.4	160.3
4.0	98.4	753.4	64.0	67.9	358.3	124.0	41.7	135.3
6.0	96.4	723.5	66.0	70.5	387.2	126.0	37.9	111.8
8.0	93.7	683.0	68.0	73.0	415.0	128.0	34.0	89.8
10.0	90.2	633.6	70.0	75.1	438.9	130.0	29.8	69.2
12.0	86.1	576.9	72.0	76.8	458.6	132.0	25.4	50.3
14.0	81.3	514.9	74.0	78.2	475.6	134.0	20.8	33.7
16.0	76.0	449.7	76.0	79.1	486.5	136.0	16.0	19.9
18.0	70.2	383.3	78.0	79.6	492.8	138.0	11.0	9.3
20.0	63.9	317.8	80.0	80.0	498.2	140.0	5.8	2.6
22.0	57.3	255.1	82.0	80.1	499.5	142.0	0.6	0.0
24.0	50.3	197.0	84.0	80.0	498.5	144.0	4.6	1.7
26.0	43.2	145.1	86.0	79.8	495.2	146.0	9.9	7.7
28.0	35.9	100.4	88.0	79.3	489.7	148.0	15.2	18.1
30.0	28.5	63.4	90.0	78.7	482.3	150.0	20.5	32.8
32.0	21.1	34.5	92.0	78.0	473.0	152.0	25.8	51.7
34.0	13.6	14.5	94.0	77.0	461.9	154.0	30.9	74.2
36.0	6.3	3.1	96.0	75.8	447.1	156.0	35.9	100.5
38.0	0.9	0.1	98.0	74.2	428.8	158.0	40.9	130.2
40.0	7.9	4.8	100.0	72.5	409.1	160.0	45.6	162.1
42.0	14.6	16.6	102.0	71.0	391.9	162.0	50.1	195.5
44.0	21.1	34.6	104.0	69.3	373.2	164.0	54.3	229.4
46.0	27.3	58.0	106.0	67.4	353.2	166.0	58.1	262.7
48.0	33.2	85.8	108.0	65.3	332.0	168.0	61.5	294.3
50.0	38.8	117.2	110.0	63.1	309.5	170.0	64.5	323.3
52.0	44.1	151.5	112.0	60.3	283.3	172.0	66.9	348.5
54.0	49.1	187.7	114.0	57.4	256.6	174.0	68.9	369.1
56.0	53.7	224.4	116.0	54.6	232.1	176.0	70.3	384.4
58.0	57.9	260.4	118.0	51.9	209.2	178.0	71.1	393.8

TX station: BGK77/2

Site name:

Frequency: 98.00 MHz

Horizontal diagram at 0.0° depres. (Total antenna)

Az (°)	Er (%)	ERP (W)	Az (°)	Er (%)	ERP (W)	Az (°)	Er (%)	ERP (W)
0.0	98.3	778.1	120.0	79.2	505.6	240.0	80.2	518.5
10.0	98.3	778.1	130.0	76.2	468.0	250.0	85.3	585.4
20.0	98.3	778.1	140.0	73.2	431.7	260.0	90.9	666.0
30.0	98.8	786.1	150.0	71.0	406.5	270.0	95.3	731.2
40.0	98.8	786.1	160.0	70.2	397.0	280.0	97.3	762.3
50.0	99.2	792.9	170.0	70.2	397.0	290.0	98.3	778.1
60.0	100.0	805.3	180.0	70.2	397.0	300.0	100.0	805.3
70.0	99.1	791.4	190.0	70.2	397.0	310.0	99.2	792.9
80.0	96.3	746.7	200.0	70.2	397.0	320.0	98.8	786.1
90.0	92.3	685.7	210.0	71.2	408.4	330.0	98.8	786.1
100.0	87.3	613.2	220.0	73.2	431.7	340.0	98.3	778.1
110.0	83.2	558.1	230.0	77.2	480.4	350.0	98.3	778.1

82°29'40"W

The worst case 124.5 dBu f(50:10) contour is predicted to extend no more than 45 meters around the base of the tower at full field when calculated using the Free Space Equation. As seen in the map, there is a lack of population and housing or major roads (defined as red) around the transmitter site.

WBTP(FM) - CH239C1 (CP) - Clearwater, FL

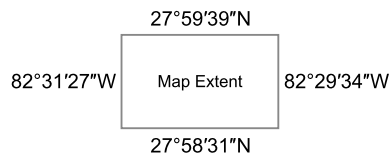
Proposed Site
27°59'06" NL
82°30'32"WL
(NAD 1927)

Jesuit High Sch

Sanitarium

Al Lo
Field

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



Geographic Coordinate System (WGS84)