Anderson Associates

Broadcast Consultants
1519 Euclid Avenue
Bowling Green, KY 42103

Technical Report
W238BB Minor Modification

This technical report is submitted for a minor modification to W238BB at Corry, PA, FCC file no. BLFT-20070809ABU. A move to the third adjacent channel 241 with corresponding changes in tower site, antenna and ERP are requested. The facility will serve as a fill-in to rebroadcast the primary signal of WRRN(FM) 222B at Warren, PA, FCC facility I.D. 34927.

The following exhibits are provided for the FCC form 349 application:

E-1 W238BB Mod. to Ch. 241 Overlap Study
E-1A Interference Plot to WJYE 241B
E-1B FMOver Analysis to WJYE 241B
E-2 W238BB Contour Plots
E-3 Enhanced 60 dBu Contour Overlap to W238BB Lic. Plot
E-4 Directional Antenna Pattern
E-5 Reference DA Pattern and Tabulation
E-6 Tower ASR 1231575

W238BB Modification:

Exhibits E-1, E-1A and E-1B show the W238BB modification to channel 241 will not produce any interference overlap to current facilities. Since the facility is within 320 km of the Canadian border, the 34 dBu F(50-10) contour (exhibit E-2) shows the contour is clear. The facility overlaps the current W238BB licensed facility, and is contained within the primary WRRN(FM) 222B 54 dBu contour (exhibits E-2 and E-3).

Antenna System:

The W238BB modification will located at an existing tower, ASR 1231575, at coordinates:

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41 55 43N 79 26 55W NAD 27.

A Nicom BKG77/2 two bay directional antenna rotated at a 210 degree azimuth (exhibit E-4) will be mounted at a COR AGL of 10 meters (565 meters AMSL, 75 meters HAAT calculated using the 30 second FCC terrain with 12 radials) and operate at an ERP of 0.230 kW.

RF Exposure Calculation:

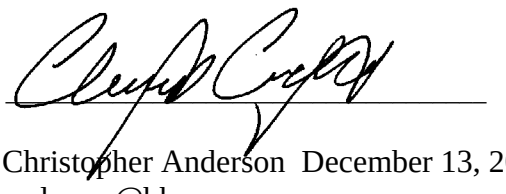
The RF contribution was calculated using the formula from the OET Bulletin 65:

$$S\ (\text{RF in microwatts/cm}^2) = \frac{33.4 \times F^2 \times (\text{H ERP} + \text{V ERP in watts})}{R^2\ (\text{distance to radiation center in meters} - 2\text{m})}$$

Using a worst-case vertical (F) factor of 0.801 provided by the antenna manufacturer (exhibit E-5), the resulting RF value is 154.0 $\mu W/cm^2$ to the ground, which is below the 200 $\mu W/cm^2$ maximum permissible for general public exposure. The tower is located at an isolated area with perimeter fencing.

Conclusion:

It is concluded that the modification of W238BB complies with all Commission rules and policies.



Christopher Anderson December 13, 2011
andersce@bham.rr.com

E-1 W238BB Overlap Study

REFERENCE — CH# 241D - 96.1 MHz, Pwr= 0.23 kW DA, HAAT= 75.0 M, COR= 565 M — DISPLAY DATES
41 55 43.0 N. — Average Protected F(50-50)= 11.0 km — DATA 12-15-11
79 26 55.0 W. — Standard Directional — SEARCH 12-15-11

CH CALL / CITY STATE	TYPE	ANT	AZI. <--	DIST FILE #	LAT. LNG.	Pwr(kW) HAAT(M)	INT(km) COR(M)	PRO(km) LICENSEE	*IN* (Overlap in km)	*OUT*
241B WJYE Buffalo NY	LIC	CN	23.7 204.1	116.4 BLH19950814KB	42 53 10.0 78 52 25.0	47.000 154	138.8 338	66.7 Townsquare Media Of Buffal	-32.5*	1.5
295B1 WKZA« Lakewood NY	LIC	CX	77.2 257.4	15.2 BLH20031117AAM	41 57 31.0 79 16 11.0	5.100 225	39.1 698	41.7 Cross Country Communicatio	11.5R	3.7M
238D W238BB Corry PA	LIC	C	264.9 84.7	16.4 BLFT20070809ABU	41 54 55.0 79 38 45.0	0.027 20	0.4 505	4.0 Family Life Ministries, In	3.8	11.2
242A WKQW-FM Oil City PA	LIC	CN	196.9 16.8	61.9 BLH19920921KD	41 23 45.0 79 39 53.0	6.000 100	47.5 522	29.2 Clarion County Broadcastin	4.5	14.5
239B WPIG Olean NY	LIC	CN	81.5 262.2	83.9 BLH4110	42 02 08.0 78 26 47.0	43.000 226	6.4 769	67.5 Backyard Broadcasting Olea	68.7	14.8
240A AL8989 Erie PA	VAC		300.6 120.3	51.9 RM10750	42 09 54.0 79 59 24.0	6.000 100	23.5 351	15.8 Dana J. Puopolo	16.5	19.5
241A AU9366989 Ashtabula OH	VAC		267.5 86.6	112.0 RM11071	41 52 38.0 80 47 49.0	6.000 100	82.9 307	25.2 Dana J. Puopolo	16.8	42.1
241B WKST-FM Pittsburgh PA	LIC	CN	194.3 14.0	175.5 BLH19920206KC	40 23 49.0 79 57 43.0	44.000 159	138.0 464	66.7 Capstar Tx Llc	25.3	53.1
238D W238BD Titusville PA	APP	DV	208.9 28.7	38.2 BPFT20111122EHC	41 37 38.0 79 40 15.0	0.250	0.8 395	6.3 Family Life Ministries, In	26.5	30.8
243A WBKX Fredonia NY	LIC	ZCX	6.0 186.0	49.0 BLH20050420AAA	42 22 02.0 79 23 12.0	1.400 209	1.7 550	17.7 Chadwick Bay Broadcasting	36.6	28.3
238D W238BD Titusville PA	LIC	C	205.6 25.4	40.4 BLFT20060605AAS	41 36 03.0 79 39 29.0	0.010 88	0.2 542	5.4 Family Life Ministries, In	28.9	32.8
241D W207AF Meadville PA	APP	C	241.3 60.8	68.9 BMJPFT20030314CAE	41 37 46.0 80 10 29.0	0.038 83	20.8 469	6.1 Public Broadcasting Of Nor	37.4	29.7
240L1 WXNM-LP Erie PA	LIC		289.0 108.6	52.4 BLL20061218ADF	42 04 50.0 80 02 52.0	0.032 52	6.0 319	4.2 Erie Christian Broadcastin	34.1	30.0
240A WZDB Sykesville PA	LIC	ZCX	147.4 327.9	116.2 BLH20090420ABT	41 02 44.1 78 42 11.8	1.500 196	47.6 710	31.5 First Media Radio, Llc	54.4	64.8
243D 631299 Meadville PA	APP	C	245.1 64.6	68.6 BNPFT20030317AMX	41 40 01.0 80 11 46.0	0.025 106	0.4 488	6.7 Clear Channel Broadcasting	57.1	60.6
240A WAKZ Sharpsville PA	LIC	CX	229.9 49.2	121.9 BLH20030723AIK	41 13 05.0 80 33 43.0	6.000 100	48.7 420	31.9 Citicasters Licenses, Inc.	62.0	73.5
244A WVTT Portville NY	LIC	NCX	80.6 261.2	86.3 BLH20090715AAK	42 03 04.0 78 25 11.0	0.460 155	1.5 704	15.7 Colonial Radio Group, Inc.	76.0	66.4
240C1 London ON	APP		307.9 126.7	187.6	42 56 59.0 81 15 53.0	100.000 299	104.8 556	72.1	71.2	99.9
244A WLLF Mercer PA	LIC	CN	225.4 44.9	97.3 BLH19871130KD	41 18 43.0 80 16 39.0	1.400 148	2.0 523	23.2 Cumulus Licensing Llc	84.2	72.7
244D W244CH Rockton PA	LIC	C	151.2 331.6	99.2 BLFT20081223ABX	41 08 41.0 78 52 41.0	0.180 88	0.9 581	9.0 Priority Communications, I	84.1	88.3
238B WFGI-FM Johnstown PA	LIC	CN	167.1 347.4	177.3 BLH19880927KA	40 22 18.0 78 58 57.0	57.000 323	9.6 849	85.9 Forever Broadcasting, Llc	153.7	89.7

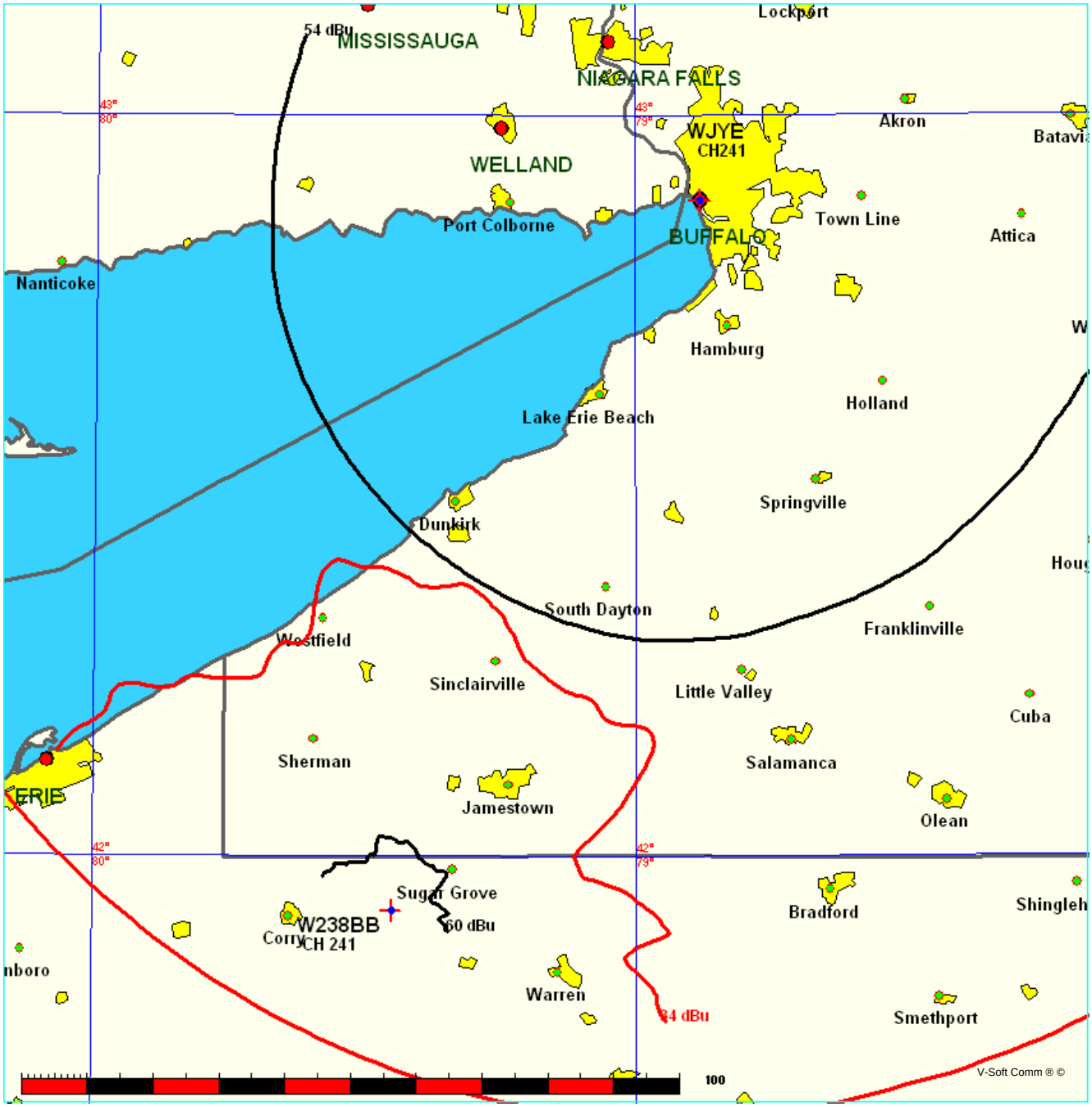
Terrain database is FCC NGDC 30 Sec, R= 73.215 qualifying spacings or FCC minimum spacings in KM, M= Margin in KM
In & Out distances between contours are shown at closest points. Reference Zone= East Zone, Co to 3rd adjacent.
Ant Column: (D= DA Standard, Z= DA 73.215, N= Not DA 73.215, _= Omni), Polarization (C,H,V,E), Beamtilt(Y,N,X)
"*"affixed to 'IN' or 'OUT' values = site inside protected contour.
« = Station meets FCC minimum distance spacing for its class.

E-1A W238BB Mod. to Ch. 241 Interference Plot to WJYE 241B

FMCommander Single Allocation Study - 12-15-2011 - FCC NGDC 30 Sec
W238BB's Overlaps (In= -32.51 km, Out= 1.52 km)

W238BB CH 241 D DA
Lat= 41 55 43.0, Lng= 79 26 55.0
0.23 kW 75 M HAAT, 565 M COR
Prot.= 60 dBu, Intef.= 34 dBu

WJYE CH 241 B BLH19950814KB
Lat= 42 53 10.0, Lng= 78 52 25.0
47.0 kW 154 M HAAT, 338 M COR
Prot.= 54 dBu, Intef.= 40 dBu



E-1B W238BB Mod. to Ch. 241 FMOver Analysis to WJYE 241B

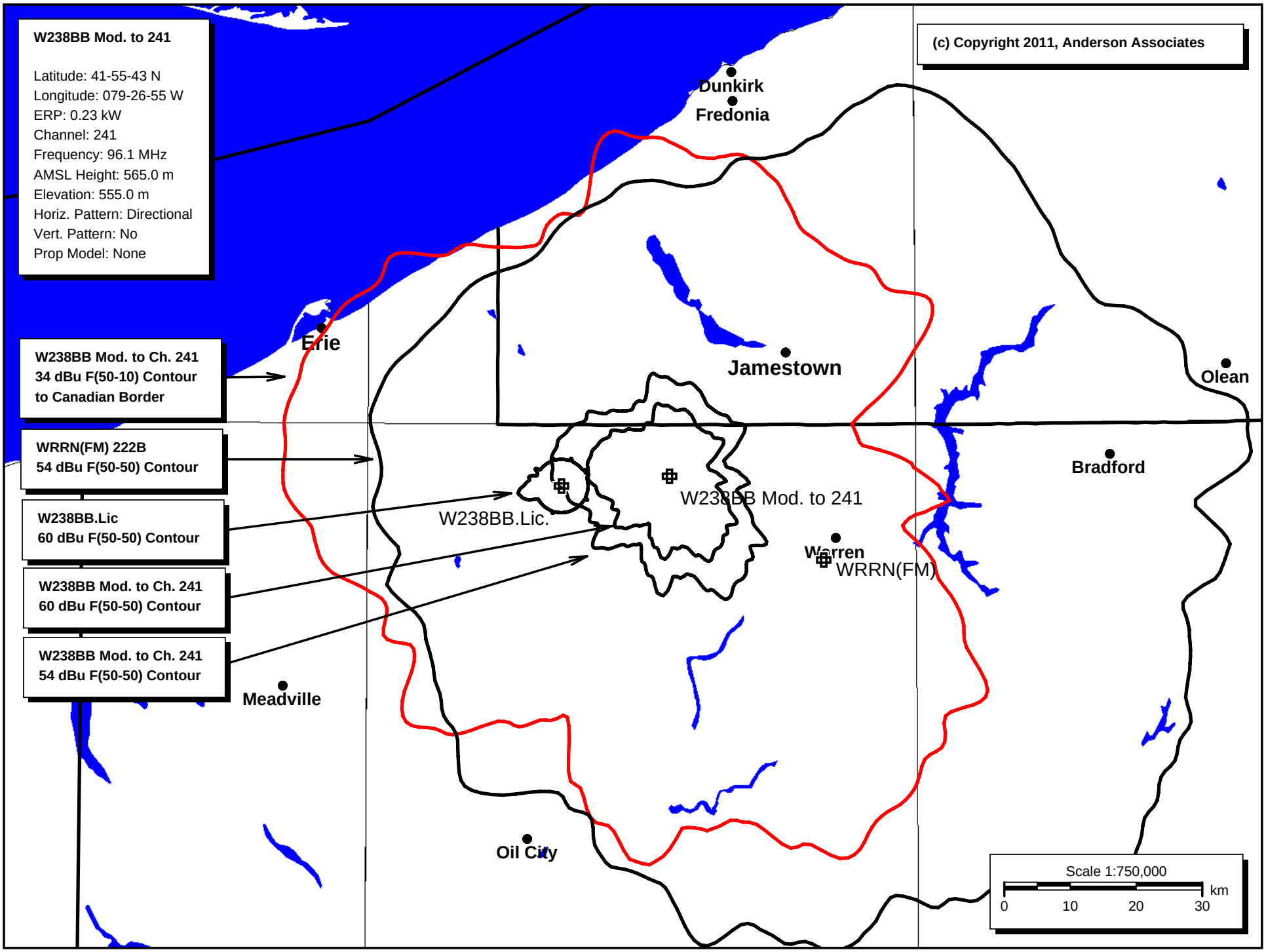
Terrain Data: FCC NGDC 30 Sec

WJYE BLH19950814KB	W238BB
Channel = 241B	Channel = 241D
Max ERP = 47 kW	Max ERP = 0.23 kW
RCAMSL = 338 M	RCAMSL = 565 M
N. Lat. 42 53 10.0	N. Lat. 41 55 43.0
W. Lng. 78 52 25.0	W. Lng. 79 26 55.0
Protected	Interfering
54 dBu	34 dBu

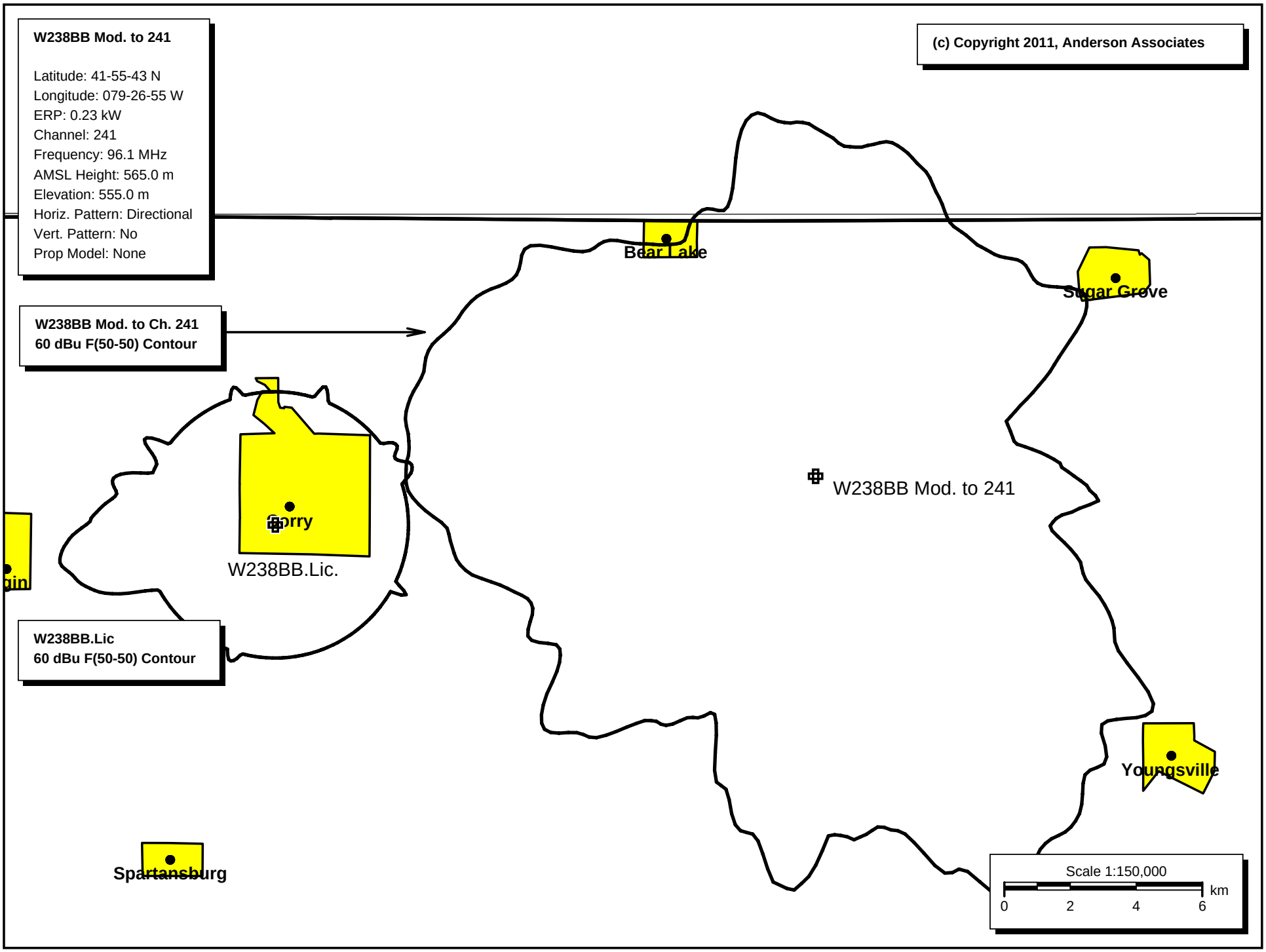
Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)	IX (km)
144.0	047.0000	0142.0	063.3	056.6	000.1155	0083.1	101.2	18.52	
145.0	047.0000	0142.9	063.5	056.6	000.1155	0083.1	100.0	18.78	
146.0	047.0000	0143.5	063.5	056.7	000.1155	0083.0	098.9	19.02	
147.0	047.0000	0144.0	063.6	056.7	000.1155	0083.0	097.8	19.27	
148.0	047.0000	0144.5	063.7	056.8	000.1155	0082.9	096.7	19.52	
149.0	047.0000	0145.1	063.8	056.8	000.1156	0082.9	095.6	19.78	
150.0	047.0000	0145.3	063.8	056.8	000.1156	0082.9	094.4	20.04	
151.0	047.0000	0145.2	063.8	056.8	000.1155	0082.9	093.3	20.32	
152.0	047.0000	0145.0	063.8	056.7	000.1155	0083.0	092.2	20.60	
153.0	047.0000	0145.0	063.8	056.7	000.1155	0083.0	091.1	20.88	
154.0	047.0000	0145.0	063.8	056.6	000.1155	0083.1	090.0	21.16	
155.0	047.0000	0145.3	063.8	056.5	000.1155	0083.2	088.9	21.45	
156.0	047.0000	0145.7	063.9	056.4	000.1154	0083.2	087.8	21.75	
157.0	047.0000	0146.1	063.9	056.4	000.1154	0083.3	086.7	22.04	
158.0	047.0000	0146.4	064.0	056.3	000.1154	0083.3	085.6	22.34	
159.0	047.0000	0146.6	064.0	056.1	000.1153	0083.3	084.5	22.63	
160.0	047.0000	0146.7	064.0	056.0	000.1153	0083.3	083.4	22.92	
161.0	047.0000	0146.8	064.0	055.8	000.1152	0083.3	082.3	23.21	
162.0	047.0000	0147.2	064.1	055.6	000.1152	0083.2	081.2	23.50	
163.0	047.0000	0147.9	064.2	055.5	000.1151	0083.1	080.1	23.79	
164.0	047.0000	0148.4	064.2	055.3	000.1151	0082.9	079.0	24.06	
165.0	047.0000	0148.5	064.2	055.0	000.1150	0082.5	078.0	24.33	
166.0	047.0000	0148.6	064.3	054.8	000.1149	0082.0	076.9	24.59	
167.0	047.0000	0149.0	064.3	054.5	000.1148	0081.5	075.9	24.84	
168.0	047.0000	0149.7	064.4	054.2	000.1147	0080.9	074.8	25.09	
169.0	047.0000	0150.7	064.5	054.0	000.1146	0080.2	073.7	25.35	
170.0	047.0000	0151.9	064.7	053.7	000.1145	0079.5	072.6	25.60	
171.0	047.0000	0153.1	064.9	053.4	000.1145	0078.7	071.5	25.84	
172.0	047.0000	0154.5	065.0	053.1	000.1144	0077.8	070.5	26.08	
173.0	047.0000	0156.0	065.2	052.8	000.1143	0076.9	069.4	26.32	
174.0	047.0000	0157.2	065.4	052.5	000.1141	0075.8	068.3	26.54	
175.0	047.0000	0158.2	065.5	052.0	000.1140	0074.6	067.3	26.74	
176.0	047.0000	0159.0	065.6	051.6	000.1139	0073.3	066.3	26.92	
177.0	047.0000	0159.7	065.7	051.1	000.1137	0071.9	065.3	27.09	
178.0	047.0000	0160.2	065.8	050.5	000.1135	0070.6	064.3	27.26	
179.0	047.0000	0160.4	065.8	049.9	000.1133	0069.4	063.4	27.43	
180.0	047.0000	0160.7	065.8	049.3	000.1133	0068.7	062.5	27.63	
181.0	047.0000	0161.4	065.9	048.6	000.1133	0068.3	061.6	27.88	
182.0	047.0000	0162.5	066.0	048.0	000.1133	0068.4	060.6	28.16	
183.0	047.0000	0163.6	066.2	047.3	000.1133	0068.6	059.7	28.46	
184.0	047.0000	0164.3	066.3	046.6	000.1133	0069.1	058.9	28.77	
185.0	047.0000	0164.9	066.3	045.8	000.1133	0069.7	058.0	29.08	
186.0	047.0000	0165.7	066.4	045.0	000.1133	0070.2	057.2	29.38	
187.0	047.0000	0166.5	066.5	044.1	000.1133	0070.2	056.4	29.65	
188.0	047.0000	0167.2	066.6	043.2	000.1133	0069.6	055.7	29.85	
189.0	047.0000	0167.5	066.6	042.2	000.1133	0068.4	055.0	29.97	
190.0	047.0000	0167.7	066.7	041.2	000.1133	0066.9	054.3	30.05	
191.0	047.0000	0167.9	066.7	040.2	000.1133	0065.5	053.7	30.13	
192.0	047.0000	0167.9	066.7	039.1	000.1133	0064.8	053.2	30.24	
193.0	047.0000	0168.0	066.7	038.0	000.1133	0064.5	052.7	30.39	
194.0	047.0000	0168.0	066.7	036.8	000.1133	0064.2	052.2	30.52	
195.0	047.0000	0168.0	066.7	035.6	000.1133	0063.9	051.7	30.63	
196.0	047.0000	0168.0	066.7	034.4	000.1133	0063.9	051.3	30.75	
197.0	047.0000	0168.0	066.7	033.2	000.1133	0064.3	051.0	30.91	
198.0	047.0000	0168.0	066.7	031.9	000.1133	0065.0	050.7	31.07	
199.0	047.0000	0168.0	066.7	030.6	000.1133	0065.4	050.4	31.20	
200.0	047.0000	0168.0	066.7	029.3	000.1133	0065.7	050.2	31.30	
201.0	047.0000	0168.0	066.7	028.0	000.1133	0066.6	050.0	31.45	
202.0	047.0000	0168.0	066.7	026.7	000.1133	0068.8	049.9	31.70	
203.0	047.0000	0168.0	066.7	025.4	000.1133	0071.9	049.8	32.02	
204.0	047.0000	0168.0	066.7	024.0	000.1133	0074.9	049.8	32.31	
205.0	047.0000	0168.0	066.7	022.7	000.1133	0077.6	049.8	32.55	
206.0	047.0000	0168.0	066.7	021.4	000.1133	0081.1	049.9	32.85	
207.0	047.0000	0168.0	066.7	020.1	000.1133	0084.3	050.0	33.09	
208.0	047.0000	0168.0	066.7	018.7	000.1133	0086.1	050.2	33.18	
209.0	047.0000	0168.0	066.7	017.4	000.1133	0088.2	050.4	33.28	
210.0	047.0000	0168.0	066.7	016.2	000.1133	0090.7	050.6	33.40	
211.0	047.0000	0168.0	066.7	014.9	000.1133	0092.6	050.9	33.44	
212.0	047.0000	0168.0	066.7	013.7	000.1133	0094.1	051.3	33.43	
213.0	047.0000	0168.0	066.7	012.4	000.1133	0094.9	051.7	33.35	
214.0	047.0000	0168.0	066.7	011.3	000.1133	0093.8	052.1	33.11	
215.0	047.0000	0168.0	066.7	010.1	000.1133	0092.2	052.6	32.80	
216.0	047.0000	0168.0	066.7	009.0	000.1136	0090.7	053.1	32.51	

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)	IX (km)
217.0	047.0000	0168.0	066.7	007.9	000.1139	0089.2	053.6	32.20	
218.0	047.0000	0168.0	066.7	006.8	000.1142	0088.9	054.2	31.97	
219.0	047.0000	0168.0	066.7	005.8	000.1144	0088.8	054.8	31.75	
220.0	047.0000	0168.0	066.7	004.8	000.1147	0088.7	055.5	31.51	
221.0	047.0000	0168.0	066.7	003.8	000.1149	0090.6	056.2	31.41	
222.0	047.0000	0168.0	066.7	002.9	000.1152	0092.8	056.9	31.32	
223.0	047.0000	0168.0	066.7	002.0	000.1154	0094.1	057.6	31.15	
224.0	047.0000	0168.0	066.7	001.1	000.1156	0095.5	058.4	30.98	
225.0	047.0000	0168.0	066.7	000.3	000.1159	0096.9	059.2	30.79	
226.0	047.0000	0168.0	066.7	359.6	000.1163	0098.2	060.0	30.60	
227.0	047.0000	0168.0	066.7	358.8	000.1168	0099.8	060.9	30.43	
228.0	047.0000	0168.0	066.7	358.1	000.1173	0100.0	061.8	30.17	
229.0	047.0000	0168.0	066.7	357.4	000.1178	0100.1	062.7	29.89	
230.0	047.0000	0168.0	066.7	356.8	000.1183	0100.0	063.6	29.60	
231.0	047.0000	0168.0	066.7	356.2	000.1187	0099.6	064.5	29.31	
232.0	047.0000	0168.0	066.7	355.6	000.1191	0099.8	065.5	29.04	
233.0	047.0000	0168.0	066.7	355.1	000.1195	0100.1	066.5	28.77	
234.0	047.0000	0168.0	066.7	354.5	000.1199	0100.3	067.5	28.50	
235.0	047.0000	0168.0	066.7	354.1	000.1203	0100.8	068.5	28.24	
236.0	047.0000	0168.0	066.7	353.6	000.1206	0101.5	069.5	27.99	
237.0	047.0000	0168.0	066.7	353.2	000.1209	0102.4	070.5	27.74	
238.0	047.0000	0168.0	066.7	352.8	000.1212	0103.2	071.6	27.48	
239.0	047.0000	0168.0	066.7	352.4	000.1215	0104.1	072.7	27.23	
240.0	047.0000	0168.0	066.7	352.0	000.1217	0105.0	073.7	26.97	
241.0	047.0000	0168.0	066.7	351.7	000.1220	0105.7	074.8	26.70	
242.0	047.0000	0168.0	066.7	351.4	000.1222	0106.2	075.9	26.42	
243.0	047.0000	0168.0	066.7	351.1	000.1224	0106.5	077.0	26.12	
244.0	047.0000	0168.0	066.7	350.9	000.1226	0106.5	078.1	25.81	
245.0	047.0000	0168.0	066.7	350.6	000.1228	0106.4	079.2	25.49	
246.0	047.0000	0168.0	066.7	350.4	000.1229	0106.1	080.4	25.17	
247.0	047.0000	0168.0	066.7	350.2	000.1231	0105.9	081.5	24.84	
248.0	047.0000	0168.0	066.7	350.1	000.1232	0105.6	082.6	24.51	
249.0	047.0000	0168.0	066.7	349.9	000.1233	0105.2	083.8	24.18	
250.0	047.0000	0168.0	066.7	349.8	000.1235	0104.9	084.9	23.84	
251.0	047.0000	0167.9	066.7	349.6	000.1236	0104.6	086.1	23.51	
252.0	047.0000	0167.7	066.7	349.5	000.1237	0104.3	087.2	23.18	
253.0	047.0000	0167.6	066.6	349.5	000.1238	0104.1	088.4	22.86	
254.0	047.0000	0167.5	066.6	349.4	000.1238	0103.8	089.6	22.53	
255.0	047.0000	0167.5	066.6	349.3	000.1239	0103.6	090.7	22.21	
256.0	047.0000	0167.7	066.6	349.3	000.1240	0103.4	091.9	21.89	
257.0	047.0000	0167.8	066.7	349.2	000.1240	0103.3	093.0	21.58	
258.0	047.0000	0167.9	066.7	349.2	000.1240	0103.2	094.2	21.28	
259.0	047.0000	0167.6	066.6	349.2	000.1240	0103.2	095.4	20.98	
260.0	047.0000	0167.0	066.6	349.3	000.1240	0103.4	096.5	20.70	
261.0	047.0000	0166.0	066.5	349.3	000.1239	0103.7	097.7	20.42	
262.0	047.0000	0164.9	066.3	349.4	000.1238	0104.0	098.8	20.15	
263.0	047.0000	0163.9	066.2	349.5	000.1237	0104.3	100.0	19.89	

E-2 W238BB Mod. to Ch. 241 Contour Plots



E-3 W238BB Mod. to Ch. 241 Enhanced 60 dBu Contour Plot

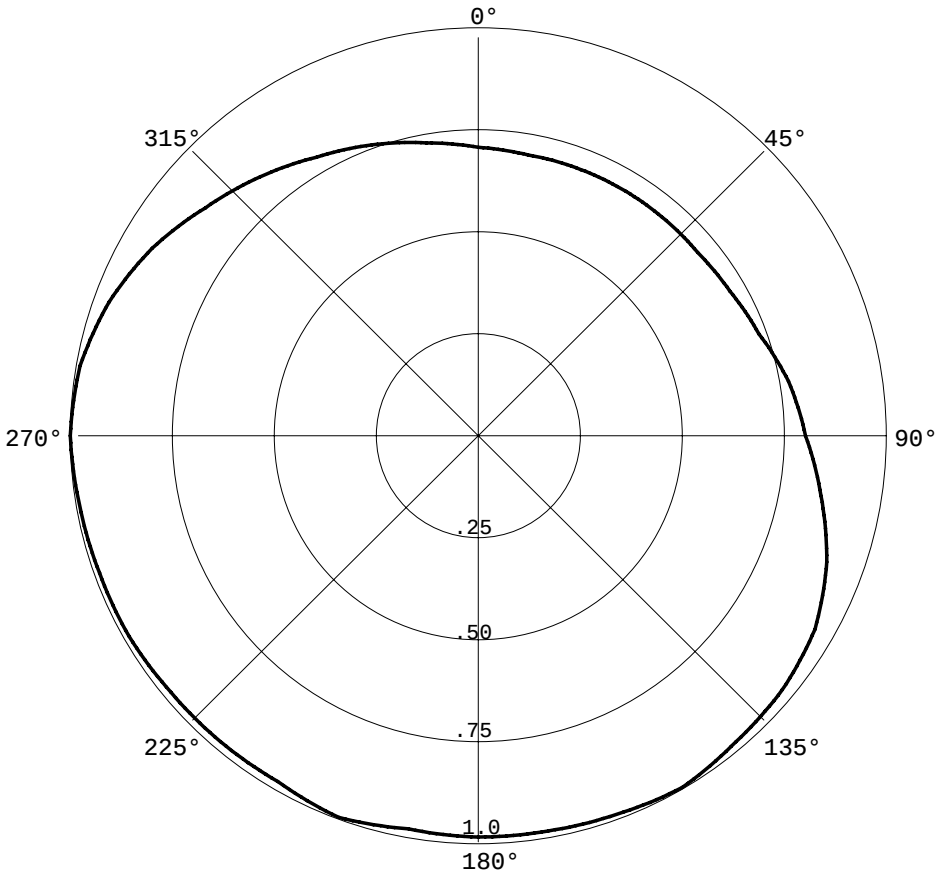


E-4 W238BB Mod. to Ch. 241 DA Antenna Pattern

RMS(V)= .887

Graph is Relative Field

Azi	Field	dBk	kW
000	0.710	-08.995	0.126
010	0.702	-09.094	0.123
020	0.702	-09.094	0.123
030	0.702	-09.094	0.123
040	0.702	-09.094	0.123
050	0.702	-09.094	0.123
060	0.712	-08.971	0.127
070	0.732	-08.730	0.134
080	0.772	-08.268	0.149
090	0.802	-07.937	0.161
100	0.853	-07.402	0.182
110	0.909	-06.849	0.207
120	0.953	-06.439	0.227
130	0.973	-06.258	0.237
140	0.983	-06.170	0.242
150	1.000	-06.021	0.250
160	0.992	-06.090	0.246
170	0.988	-06.125	0.244
180	0.988	-06.125	0.244
190	0.983	-06.170	0.242
200	1.000	-06.021	0.250
210	0.983	-06.170	0.242
220	0.983	-06.170	0.242
230	0.983	-06.170	0.242
240	0.988	-06.125	0.244
250	0.988	-06.125	0.244
260	0.992	-06.090	0.246
270	1.000	-06.021	0.250
280	0.991	-06.099	0.246
290	0.963	-06.348	0.232
300	0.923	-06.717	0.213
310	0.873	-07.200	0.191
320	0.832	-07.618	0.173
330	0.792	-08.046	0.157
340	0.762	-08.382	0.145
350	0.732	-08.730	0.134



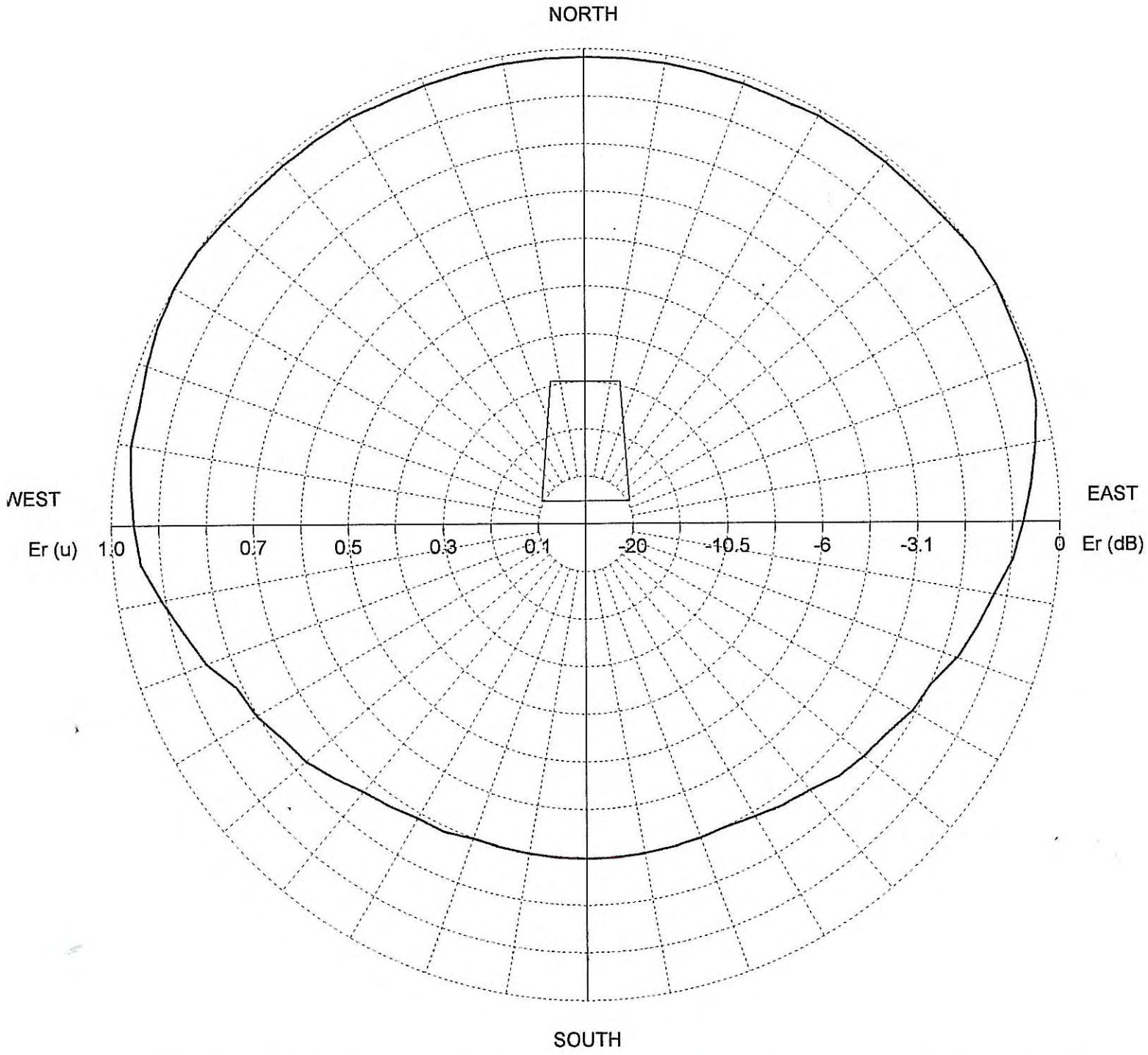
E-5 W238BB Mod. Reference Antenna Pattern and Tabulation

TX station: BGK77/2

Site name:

Frequency: 98.00 MHz

Horizontal diagram

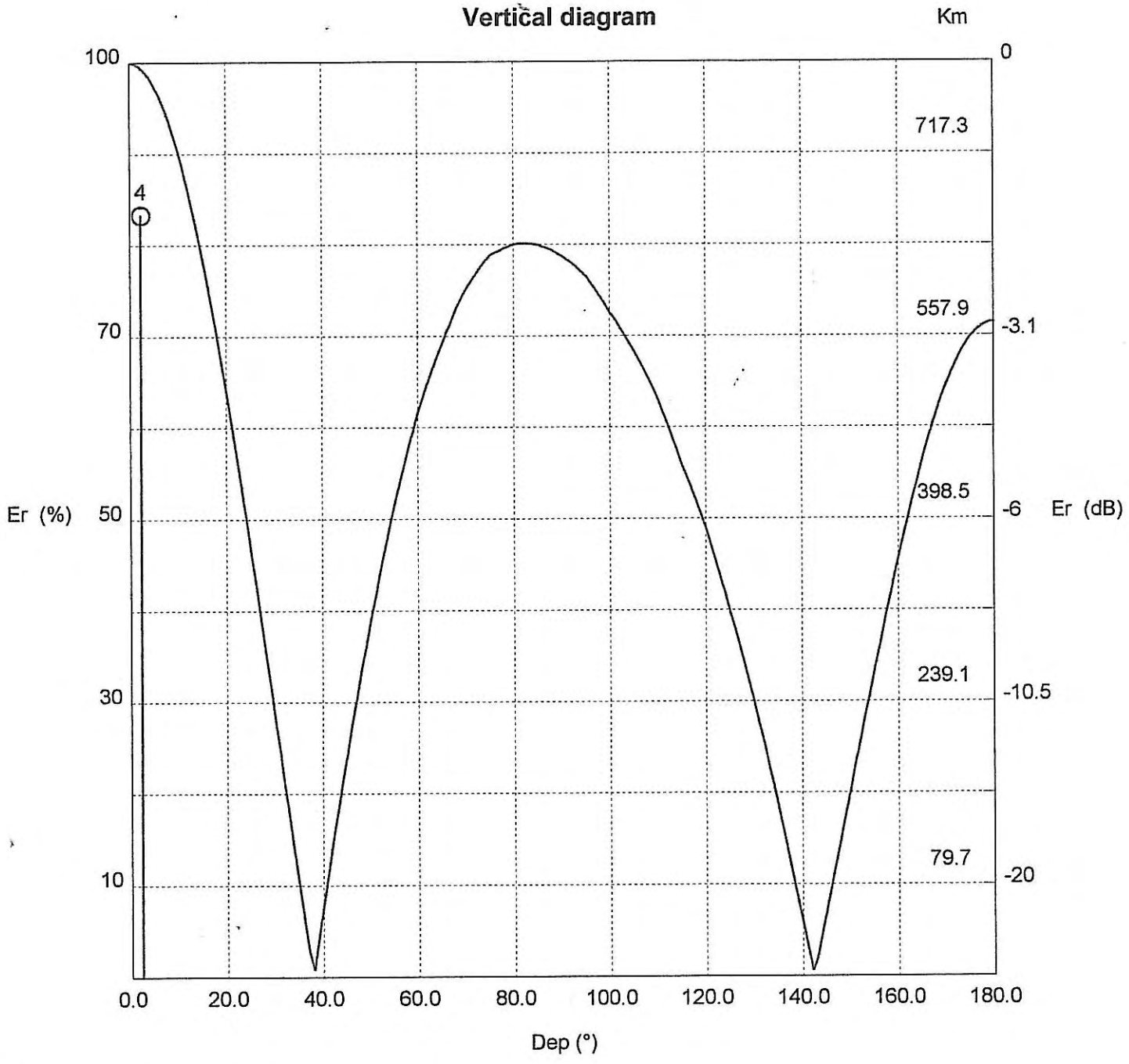


——— 0.0° depres. (Total antenna), Gain (dBd): 0.2 ERP T.max (KW): 1.037 ERP E.max (KW): 0.805

TX station: BGK77/2

Site name:

Frequency: 98.00 MHz



——— 0.0° Az. (Total antenna)

Distance scale for field level equal to 0 dBμV/m. (Free space)

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

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

E-6 W238BB Mod. Tower ASR

ASR Registration Search

Registration 1231575

Map Registration

Registration Detail

Reg Number	1231575	Status	Constructed
File Number	A0369915	Constructed	01/24/2002
FAA Study	2004-AEA-793-OE	EMI	No
FAA Issue Date	04/05/2004	NEPA	No

Antenna Structure

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

Location (in NAD83 Coordinates)

Lat/Long	41-55-43.6 N 079-26-54.0 W	24A Sherman Hill Road
City, State	Bear Lake , PA	
Center of AM Array		

Heights (meters)

Elevation of Site Above Mean Sea Level	Overall Height Above Ground (AGL)
554.7	93.2
Overall Height Above Mean Sea Level	**Overall Height Above Ground w/o Appurtenances**
647.9	91.4

Painting and Lighting Specifications

FAA Chapters 4, 8, 12
Paint and Light in Accordance with FAA Circular Number 70/7460-1K

Owner & Contact Information

FRN 0005793351 Licensee ID L00296049

Owner

SBA Properties, Inc.
Attention To: Edward G. Roach
5900 Broken Sound Pkwy., NW
Boca Raton , FL 33487

P: (561)995-7670
E: ERoach@SBAsite.com

Contact

P:
E:

Last Action Status

Status	Constructed	Received	04/06/2004
Purpose	Notification	Entered	04/06/2004
Mode	Interactive		

Related Applications