

AMEND BPFT-20100402ABS
SOUTHERN COMMUNICATIONS CORPORATION
W264BM FM TRANSLATOR
CH 228D - 93.5 MHZ - 0.250 KW
BECKLEY, WEST VIRGINIA
April 2010

EXHIBIT C

The proposed operation of W264BM on Channel 228 with an effective radiated power of 0.250 kilowatt at 120.4 meters above ground level will not cause interference to any existing, applied for, or proposed facility, as noted on Exhibit C1. However, the proposed W264BM site is inside the 60 dBu contour of third adjacent station WAXS, Channel 231B, Oak Hill, West Virginia.¹ Due to the relationship between W264BM on Channel 228D and WAXS, a 40 dB ratio of the protected and interfering contours applies. As the signal level of WAXS is well above 54 dB at the proposed tower site for W264BM, we have applied the 40 dB ratio to the contour of WAXS, based on the relevant protected contour at the site. A map showing the relative contour of WAXS at the proposed W264BM site is attached as Exhibit C2.

The signal of WAXS at the proposed W264BM site is 72.65 dBu (50/50). As such, the interfering contour of the proposed translator would need to be above 112.65 dBu (50/10) to cause interference to WAXS. The 112.65 dBu contour of the proposed W264BM translator extends 0.26 kilometer (2,210.0 feet) from the proposed translator antenna. The proposed W264BM antenna system is a Shively Labs ("Shively") Model 6812-2, two bay low power, full wavelength spaced antenna. Shively has provided the vertical elevation pattern of the antenna

1) Principals of SCC have an attributable interest in the licensee of WAXS.

system, so that calculations of the actual power level at depression angles between 5° and 90° could be calculated (Exhibit C3). Applying the actual relative field values, it was then possible to calculate, using a free space calculation, the actual distance to the interfering contour (F50/10) of the translator with respect to the WAXS facility.

As indicated in Exhibit C4, we have calculated the elevation above the ground of the interference from the proposed W264BM translator. The closest point above the ground that the interfering contour reaches is 15.6 meters (51.2 feet). This point occurs at a distance of 60.5 meters (199 feet) out from the base of the tower. There are no multi-story buildings or elevated roadways which would penetrate the 15.6 meter height of the interference zone, as indicated on Exhibit C5. Therefore, the interfering contour does not reach the ground and will not impact reception of service from WAXS. Thus, the interference is considered to be over an unpopulated area. As such, it is believed that the proposed W264BM facility is in compliance with §74.1204(d) of the Commission's rules. If a waiver of the rule is needed, one is respectfully requested.

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EXHIBIT C1

Interference Review for W264BM Beckley, West Virginia
Using Proposed Site as Reference

REFERENCE 37 45 18.0 N. 81 14 12.0 W.		CH# 228D - 93.5 MHz, Pwr= 0.25 kW, HAAT= 182.3 M, COR= 870.2M Average Protected F(50-50)= 17.7 km Omni-directional						DISPLAY DATES DATA 04-24-10 SEARCH 04-24-10		
CH CITY	CALL	TYPE ANT STATE	AZI. <--	DIST FILE #	LAT. LNG.	Pwr(kW) HAAT(M)	INT(km) COR(M)	PRO(km) LICENSEE	*IN* (Overlap in km)	*OUT*
231B Oak Hill	WAXS	LIC CY WV	18.4 198.5	23.8 BMLH19960118KD	37 57 30.0 81 09 03.0	26.500 198	4.9 775	57.7 Plateau Broadcasting, Inc.	1.9	-35.7*<
227A Marmet	WKVW	LIC CX WV	336.4 156.2	63.1 BLED20060725AEE	38 16 32.0 81 31 36.0	1.100 235	44.3 545	29.3 Educational Media Foundation	1.3<	7.8
225B Summersville	WCWV	LIC CN WV	37.3 217.7	84.8 BLH19830328AL	38 21 37.0 80 38 49.0	11.000 274	5.2 974	65.2 R-S Broadcasting Company,	63.2	17.8
229C1 Ashland	WDGG	LIC CN KY	299.8 118.9	143.5 BLH19860407KC	38 23 14.0 82 39 45.0	100.000 226	98.6 447	67.0 Fifth Avenue Broadcasting	24.2	45.8
228C2 Big Stone Gap	WAXM	LIC CN VA	238.0 57.0	174.1 BLH19911016KB	36 54 50.0 82 53 40.0	2.450 574	125.9 1310	51.2 Valley Broadcasting and Co	29.1	63.4
230C Marion	WMEV-FM	LIC DEX VA	196.0 15.8	98.6 BLH20060512AAB	36 54 04.0 81 32 35.0	100.000 452	7.5 1187	65.8 Holston Valley Broadcasting	73.2	31.7
227A White Sulphur Sprin	VA8771	VAC N WV	84.5 265.1	91.9	37 49 48.0 80 11 51.0	6.000 100	43.9 793	28.4	33.7	42.0
230D Bluefield	WMEV-FM1	CP DC WV	180.2 0.2	55.1 BNPFTB20070619ABN	37 15 30.0 81 14 21.0	0.099	0.4 898	8.5 Holston Valley Broadcasting	37.8	45.5
228A Salem	WSNV	LIC CN VA	115.3 296.1	122.1 BMLH19910801KB	37 16 47.0 79 59 29.0	5.800 30	67.5 434	15.6 Aloha Station Trust, LLC	41.9	62.9
228B1 Buckhannon	WBTQ	LIC CN WV	37.5 218.2	171.0 BLH19960402KC	38 58 11.0 80 01 58.0	16.000 127	107.7 750	44.6 West Virginia Radio Corporation	46.9	65.6
226C2 Pikeville	WDHR	LIC C KY	254.9 74.1	120.4 BLH20040917ABI	37 27 57.0 82 33 04.0	22.000 231	5.6 596	51.4 East Kentucky Broadcasting	95.7	67.9

Terrain database is NGDC 30 SEC, R= 73.215 qualifying spacings or FCC minimum spacings in KM, M= Margin in KM
Contour distances are on direct line to and from reference station. Reference Zone = 1, 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.
"<" = Contour Overlap
Reference station has protected zone issue: AM tower

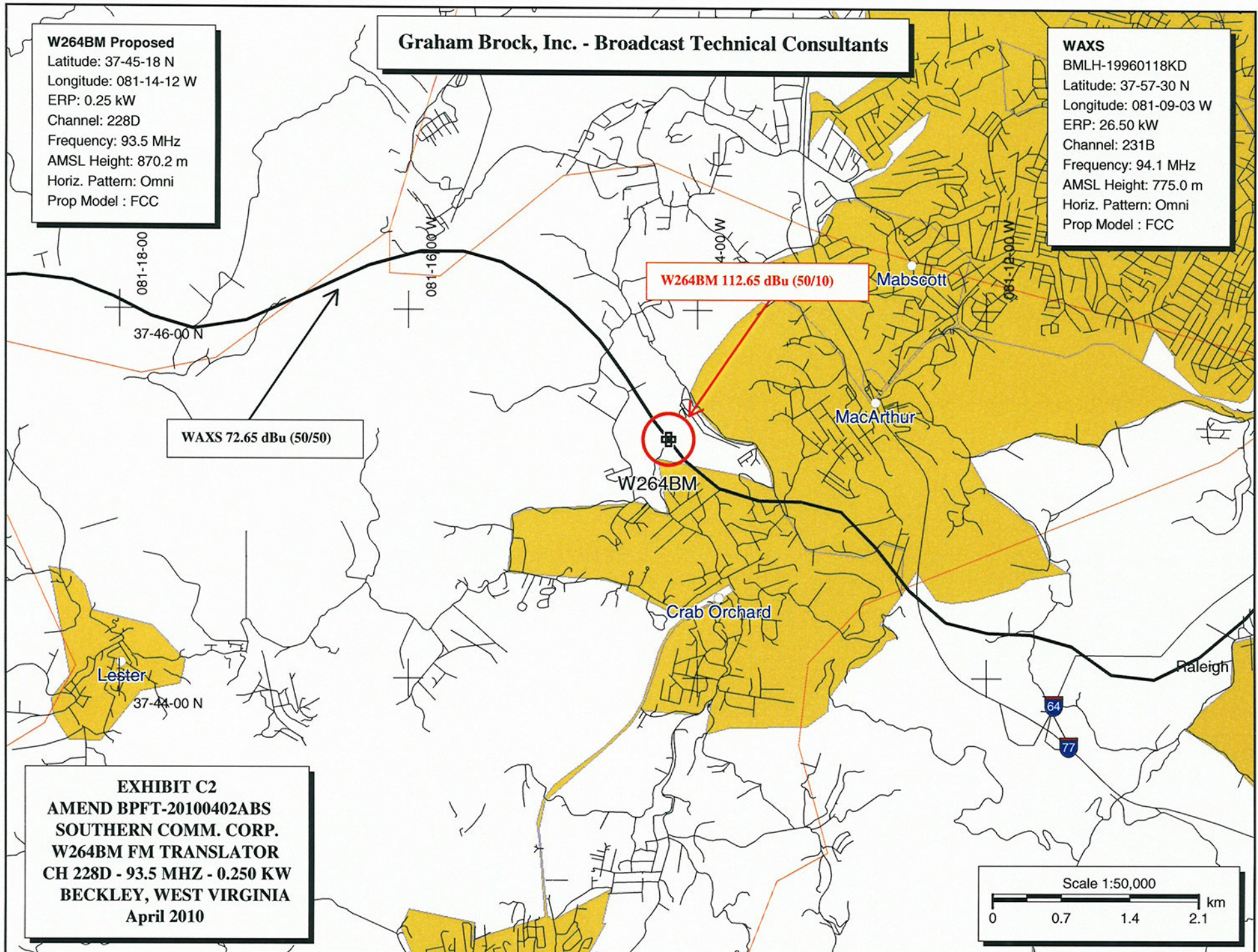
Graham Brock, Inc. - Broadcast Technical Consultants

W264BM Proposed

Latitude: 37-45-18 N
Longitude: 081-14-12 W
ERP: 0.25 kW
Channel: 228D
Frequency: 93.5 MHz
AMSL Height: 870.2 m
Horiz. Pattern: Omni
Prop Model : FCC

WAXS

BMLH-19960118KD
Latitude: 37-57-30 N
Longitude: 081-09-03 W
ERP: 26.50 kW
Channel: 231B
Frequency: 94.1 MHz
AMSL Height: 775.0 m
Horiz. Pattern: Omni
Prop Model : FCC



WAXS 72.65 dBu (50/50)

W264BM 112.65 dBu (50/10)

W264BM

Mabscott

MacArthur

Crab Orchard

Raleigh

Lester

EXHIBIT C2

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Scale 1:50,000

0 0.7 1.4 2.1 km

Shively Labs®

Antenna Mfr.: Shively Labs

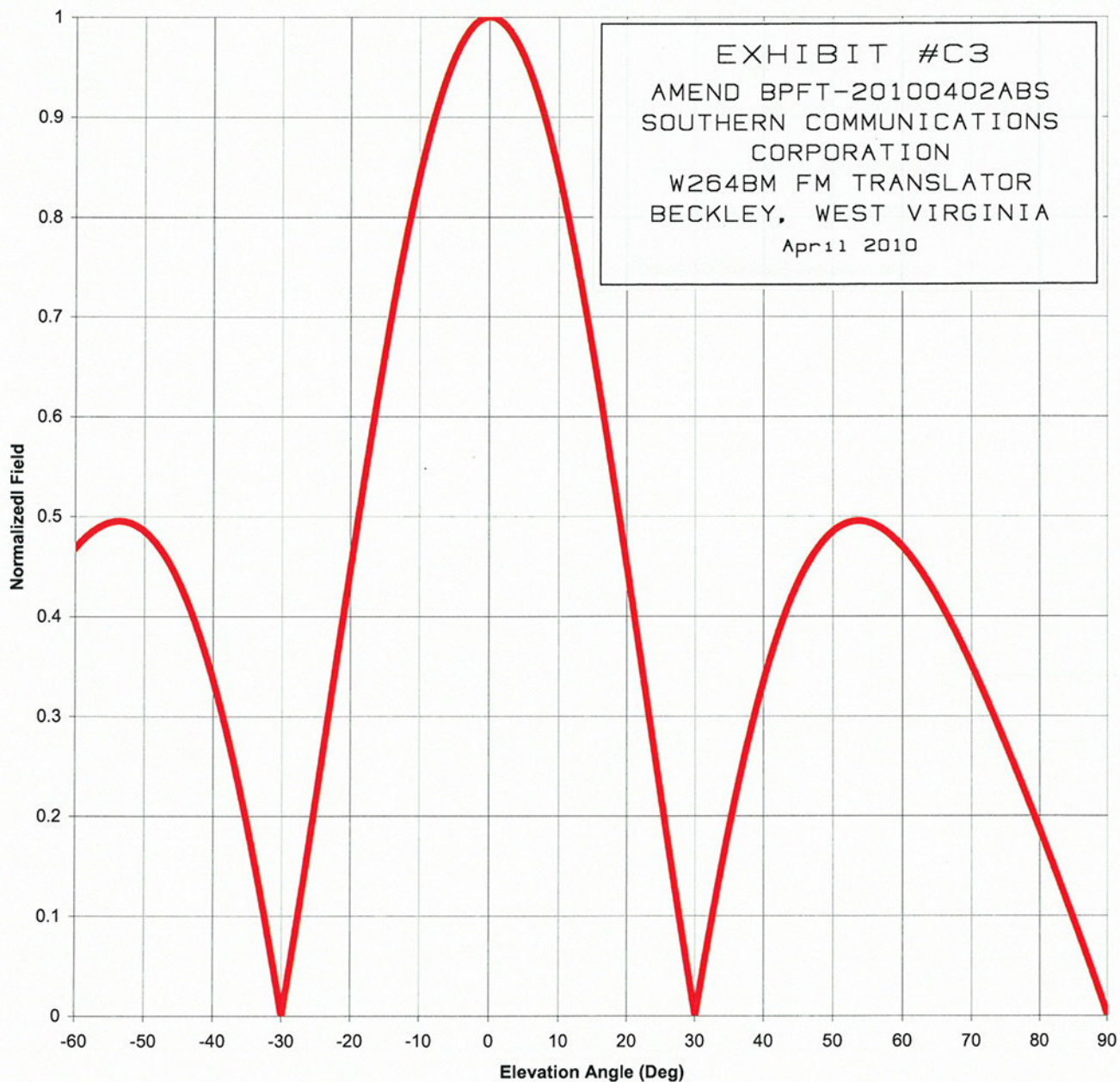
Date: 12/30/2004

Antenna Type: 6014, 6015, 6510, 6513, 6600, 68xx 2-Bay, full-wave-spaced

Frequency: 98.1

6014, 6015, 68xx Gain (Max) 0.99 -0.04 dB

6510, 6513, 6600 Gain (Max) 1.98 2.96 dB



Elevation Pattern Tabulation, Sidemount 2-Bay Antennas, Full-Wave-Spaced

Includes Models 6014, 6015, 66xx series except 6602B, 65xx series, 68xx series except 6812B & 6832.

Relative Field at 0° Depression = 1.000

Degrees	Rel. Field
1	0.998
2	0.993
3	0.985
4	0.974
5	0.959
6	0.942
7	0.921
8	0.898
9	0.871
10	0.843
11	0.811
12	0.778
13	0.742
14	0.704
15	0.665
16	0.624
17	0.582
18	0.538

Degrees	Rel. Field
19	0.494
20	0.449
21	0.403
22	0.357
23	0.311
24	0.265
25	0.220
26	0.174
27	0.130
28	0.086
29	0.043
30	0.001
31	0.040
32	0.079
33	0.117
34	0.154
35	0.188
36	0.221

Degrees	Rel. Field
37	0.253
38	0.282
39	0.309
40	0.335
41	0.359
42	0.380
43	0.400
44	0.418
45	0.434
46	0.448
47	0.460
48	0.470
49	0.478
50	0.485
51	0.490
52	0.493
53	0.495
54	0.495

Degrees	Rel. Field
55	0.494
56	0.491
57	0.488
58	0.482
59	0.476
60	0.469
61	0.461
62	0.451
63	0.441
64	0.430
65	0.418
66	0.406
67	0.393
68	0.379
69	0.365
70	0.351
71	0.335
72	0.320

Degrees	Rel. Field
73	0.304
74	0.288
75	0.272
76	0.255
77	0.238
78	0.221
79	0.204
80	0.186
81	0.168
82	0.151
83	0.133
84	0.114
85	0.096
86	0.078
87	0.059
88	0.040
89	0.021
90	0.000

CALL: W264BM
 POWER (Watts): 250 0° radial
 ANTENNA AGL (m): 120.4
 Desired Contour (dBu) 112.65

INPUT FROM MFG

DEPRESSION ANGLE	ANTENNA RELATIVE FIELD	ERP (WATTS)		dBk	DISTANCE TO INTERFERING CONTOUR (m)	HORIZONTAL DISTANCE FROM TOWER (m)	VERTICAL DISTANCE FROM GROUND (m)
5	0.959		229.9	-6.38	247.3	246.4	98.8
10	0.843		177.7	-7.50	217.4	214.1	82.6
15	0.665		110.6	-9.56	171.5	165.7	76.0
20	0.449		50.4	-12.98	115.8	108.8	80.8
25	0.220		12.1	-19.17	56.7	51.4	96.4
30	0.001		0.0	-66.02	0.3	0.2	120.3
35	0.188		8.8	-20.54	48.5	39.7	92.6
40	0.335		28.1	-15.52	86.4	66.2	64.9
45	0.434		47.1	-13.27	111.9	79.1	41.3
50	0.485		58.8	-12.31	125.1	80.4	24.6
55	0.494		61.0	-12.15	127.4	73.1	16.0
60	0.469		55.0	-12.60	121.0	60.5	15.6
65	0.418		43.7	-13.60	107.8	45.6	22.7
70	0.351		30.8	-15.11	90.5	31.0	35.3
75	0.272		18.5	-17.33	70.2	18.2	52.6
80	0.186		8.6	-20.63	48.0	8.3	73.2
85	0.096		2.3	-26.38	24.8	2.2	95.7
90	0.000		0.0	-106.02	0.0	0.0	120.4

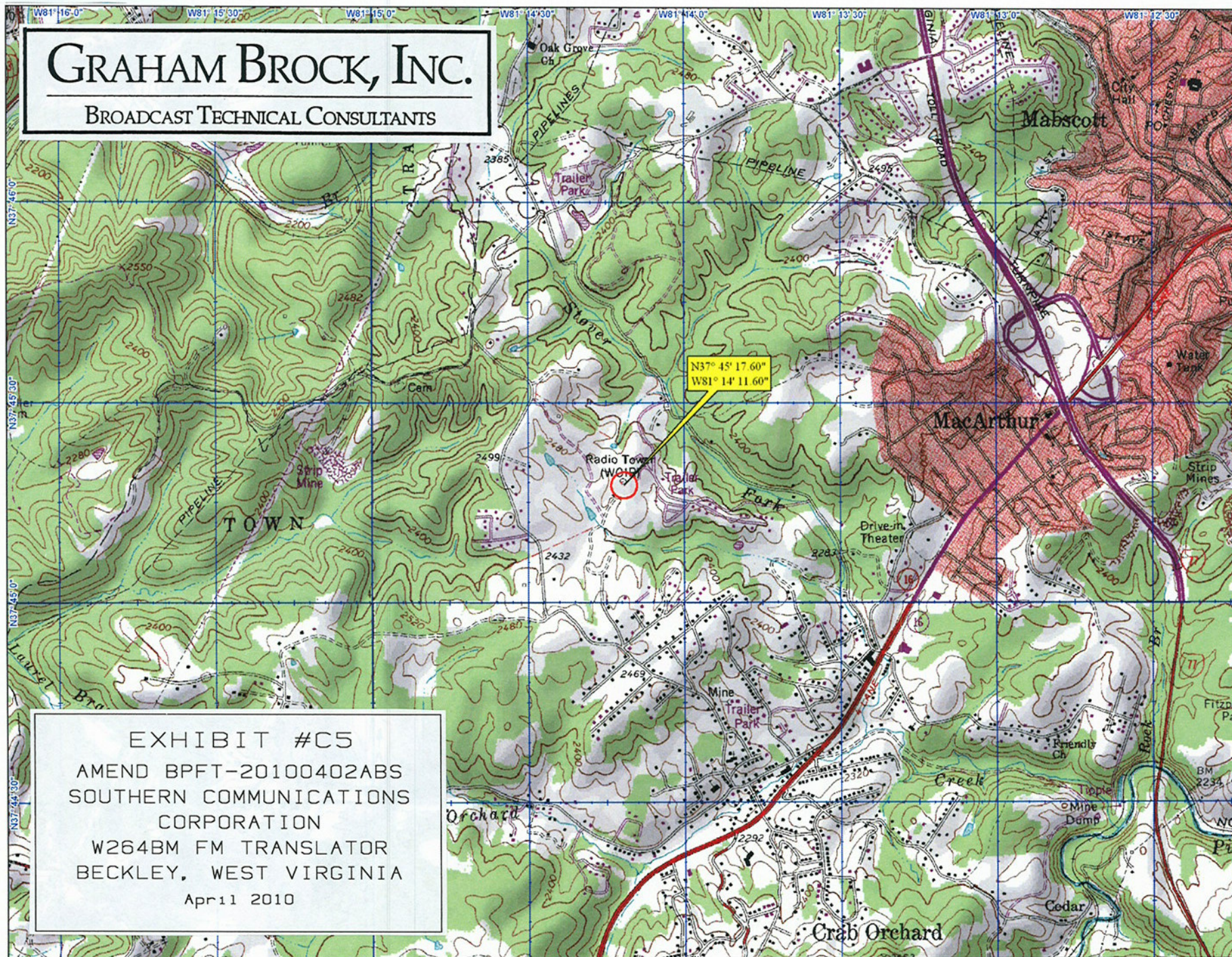
WORST CASE HEIGHT AGL (m) 15.6

EXHIBIT #C4
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 CORPORATION
 W264BM FM TRANSLATOR
 BECKLEY, WEST VIRGINIA
 Apr 11 2010

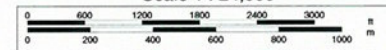
GRAHAM BROCK, INC.

BROADCAST TECHNICAL CONSULTANTS

EXHIBIT #C5
AMEND BPFT-20100402ABS
SOUTHERN COMMUNICATIONS
CORPORATION
W264BM FM TRANSLATOR
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Scale 1 : 24,000



1" = 2,000.0 ft

Data Zoom 13-1

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EXHIBIT C6

Predicted Contour:

N. Lat. = 37 45 18 - Tabulated Protected and Interfering Contour Data
W. Lng. = 81 14 12 - W264BM FM Translator - Beckley, West Virginia

HAAT and Distance to Contour - NGDC 30 Second terrain database

Azi.	HAAT	ERP kW	dBk	Field	60-F5	34-F1	40-F1	48-F1	54-F1	100-F1	112.65-F1
000	185.3	0.2500	-6.02	1.000	17.87	73.61	56.30	37.22	26.59	1.11	0.26
010	167.8	0.2500	-6.02	1.000	16.99	71.28	54.16	35.55	25.34	1.11	0.26
020	170.1	0.2500	-6.02	1.000	17.12	71.59	54.44	35.78	25.51	1.11	0.26
030	167.5	0.2500	-6.02	1.000	16.97	71.23	54.12	35.52	25.32	1.11	0.26
040	157.1	0.2500	-6.02	1.000	16.35	69.71	52.75	34.43	24.47	1.11	0.26
050	229.2	0.2500	-6.02	1.000	19.81	78.86	61.17	41.48	29.41	1.11	0.26
060	193.7	0.2500	-6.02	1.000	18.25	74.66	57.28	38.00	27.13	1.11	0.26
070	150.1	0.2500	-6.02	1.000	15.90	68.63	51.81	33.64	23.87	1.11	0.26
080	119.3	0.2500	-6.02	1.000	14.03	63.56	47.60	29.94	21.17	1.11	0.26
090	148.1	0.2500	-6.02	1.000	15.78	68.32	51.55	33.41	23.70	1.11	0.26
100	116.7	0.2500	-6.02	1.000	13.88	63.13	47.22	29.63	20.93	1.11	0.26
110	100.4	0.2500	-6.02	1.000	12.89	60.25	44.31	27.41	19.24	1.11	0.26
120	95.8	0.2500	-6.02	1.000	12.60	59.38	43.36	26.73	18.71	1.11	0.26
130	86.0	0.2500	-6.02	1.000	11.97	57.41	41.13	25.24	17.54	1.11	0.26
140	68.2	0.2500	-6.02	1.000	10.77	53.14	36.51	22.43	15.24	1.11	0.26
150	86.1	0.2500	-6.02	1.000	11.97	57.43	41.15	25.25	17.55	1.11	0.26
160	105.0	0.2500	-6.02	1.000	13.17	61.08	45.21	28.06	19.74	1.11	0.26
170	134.5	0.2500	-6.02	1.000	14.91	66.10	49.69	31.76	22.49	1.11	0.26
180	167.7	0.2500	-6.02	1.000	16.99	71.26	54.14	35.54	25.33	1.11	0.26
190	175.0	0.2500	-6.02	1.000	17.38	72.26	55.06	36.26	25.88	1.11	0.26
200	209.3	0.2500	-6.02	1.000	18.94	76.57	59.04	39.53	28.14	1.11	0.26
210	222.5	0.2500	-6.02	1.000	19.53	78.12	60.48	40.84	28.99	1.11	0.26
220	165.9	0.2500	-6.02	1.000	16.88	71.00	53.90	35.36	25.19	1.11	0.26
230	214.8	0.2500	-6.02	1.000	19.19	77.22	59.65	40.08	28.50	1.11	0.26
240	203.7	0.2500	-6.02	1.000	18.70	75.90	58.42	38.98	27.79	1.11	0.26
250	177.7	0.2500	-6.02	1.000	17.52	72.63	55.40	36.52	26.08	1.11	0.26
260	204.5	0.2500	-6.02	1.000	18.73	76.00	58.51	39.06	27.84	1.11	0.26
270	231.9	0.2500	-6.02	1.000	19.93	79.16	61.45	41.73	29.58	1.11	0.26
280	243.2	0.2500	-6.02	1.000	20.40	80.34	62.57	42.70	30.25	1.11	0.26
290	260.2	0.2500	-6.02	1.000	21.07	81.99	64.23	44.05	31.25	1.11	0.26
300	251.8	0.2500	-6.02	1.000	20.74	81.19	63.41	43.40	30.75	1.11	0.26
310	243.9	0.2500	-6.02	1.000	20.43	80.41	62.64	42.76	30.29	1.11	0.26
320	219.0	0.2500	-6.02	1.000	19.37	77.71	60.10	40.49	28.77	1.11	0.26
330	235.6	0.2500	-6.02	1.000	20.08	79.55	61.82	42.05	29.80	1.11	0.26
340	191.8	0.2500	-6.02	1.000	18.16	74.42	57.05	37.82	27.01	1.11	0.26
350	247.2	0.2500	-6.02	1.000	20.56	80.74	62.96	43.03	30.48	1.11	0.26

AMSL= 870.2 M