ORIGINAL

71288

Before the

Federal Communications Commission

Washington, DC 20554

In re application of:	)	
	)	
Educational Community Radio, Inc.	)	
	)	File No.BPED-20070122AKE
For Minor Change to Class B NCE FM	)	
Station WOBO, Batavia, Ohio	)	
Facility ID No. 71288	)	

To: The Commission

PETITION TO DENY

The President and Trustees of Miami University, licensee of Educational FM Station WMUB(FM) ("WMUB") (Facility ID No. 66278), Oxford, Ohio, through counsel, hereby submit this petition to deny the above-captioned application for minor change to facilities filed by Station WOBO, Batavia, Ohio. As the attached Engineering Statement demonstrates, the proposed modifications to Station WOBO would cause prohibited contour overlap to Station WMUB and to Station WEKU(FM), Richmond, Kentucky, in violation of Section 73.509 of the Commission's rules, 47 C.F.R. 73.509.

The WOBO application is also defective with respect to its showing of compliance with the requirements for Educational FM stations to avoid contour overlap with television channel 6 stations, here Station WSYX(TV), Columbus, Ohio.

WMUB is a party in interest since the proposed WOBO operation would cause harmful interference to its service. The facts alleged in the petition are supported by the declaration of Doug Vernier Telecommunications Consultants.

For the reasons stated herein, the proposed application is not acceptable for filing and should be denied or dismissed.

Respectfully submitted,

The President and Trustees of Miami University

By: _____

Kenneth C. Howard, Jr.
Baker & Hostetler LLP
1050 Connecticut Ave., NW., Suite 1100
Washington, DC 20036
202-861-1500
Its Attorneys

February 26, 2007

CERTIFICATE OF SERVICE

I, Ruth E. Omonijo, Assistant to Kenneth C. Howard, Jr., in the law firm of Baker & Hostetler LLP, on this 26th day of February, 2007, certify that I have caused a copy of the foregoing Petition to Deny to be sent via First Class United States Mail, postage pre-paid to the following:

Donald F. Littman
Executive Secretary
Educational Community Radio, Inc.
PO Box 338
Ownesville, OH 45160-0338

Chief, Audio Services Division
Media Bureau
Federal Communications Commission
445 12th Street, SW, Room 2A666
Washington, DC 20554
Via Hand Delivery

Ruth E. Omonijo

Doug Vernier
721 West 1st Street, Suite A
Cedar Falls, Iowa 50613
Telecommunications Consultants

ENGINEERING STATEMENT

Prepared on behalf of
WMUB
The President and Trustees of Miami University

We have been retained by The President and Trustees of Miami University, Miami, Ohio, licensee of non-commercial educational FM station WMUB ("WMUB"), to review the application submitted by Educational Community Radio, Inc. ("ECR") for a minor change to WOBO, a Class B NCE FM station licensed to Batavia, Ohio. The file number for the application is BPED-20070122AKE, as filed January 22, 2007. We reviewed the application to identify errors in engineering, as well as any potential negative impact to WMUB.

ECR proposes to move the transmitter location, increase antenna height above average terrain and ERP and modify the directional antenna pattern. In its application ECR states that the proposal complies with the contour overlap requirements of Section 73.509 of the FCC's rules. We find that statement to be in error. Attachment A is a single channel, contour-to-contour study showing that prohibited overlap is caused to both WMUB, Oxford, Ohio and WEKU, Richmond, Kentucky. This and all exhibits were generated using the NGDC US 30 arc sec terrain database.

With regard to WMUB:
In its proposal, ECR did not include an exhibit showing protection to 1st adjacent licensed station WMUB, Channel 203B, Oxford, OH. As demonstrated on the map in Attachment B, this proposed facility would cause outgoing contour overlap to the protected contour of WMUB. An FMOVER table is included to demonstrate the nature of this overlap. There are 114 people[1] within the overlap area.

With regard to WEKU:
There is also overlap with 1st adjacent WEKU, Channel 205C1, Richmond. In its contour overlap exhibit, ECR included a map of the protected and interference contours of the new WOBO and licensed WEKU, showing no overlap. However, when we plotted those same contours, overlap is shown to be present. There is a discrepancy in the plotted interference contour for WEKU. The distance to contour on ECR's map is less than the contour shown in Attachment C. As ECR

[1] 2000 US census block data

did not submit information regarding the terrain elevation database used. We have plotted this contour with all terrain databases available to us[2], and the overlap is present in all cases. The ECR application shows the distance to the 0° azimuth of the WEKU interference contour, based on measurement of the contour shown on the map provided, is 82 kilometers. Our calculations show the distance to interference contour along the 0° azimuth to be 85.8 km. as shown in the distance to contour table attached (using the NGDC 30 sec terrain database.)

In this case, there are 1,166 people in the overlap area.

Television Channel 6 Protection:

ECR provided an exhibit regarding television channel 6 protection under Section 73.525 for WSYX, Columbus, Ohio. In this exhibit, ECR failed to use the study power as defined by Section 73.525(e)(4)(ii). The study power should be 55 kW (50 kW H +50 kW V/10) as the interference area intersects the city limits of Cincinnati, Ohio, a city with more than 50,000 people. The use of the proper study power causes contour overlap with the 47 dBu protected contour of WSYX by the proposed 62.3 dBu (6 dB receiver directivity credit applied) interference contour of WOBO. ECR neglected to calculate the requisite study power is another example of how the defective the engineering application.

Upon examination of the application filed by ECR, it is our opinion that there are fundamental errors in the engineering applied which constitute a patently defective application.

Page #3 of this exhibit is a statement as to the qualifications of its preparer.

[2] NGDC 30 arc sec, NED 03 arc sec, NED 30 meter, SRTM 03 sec

Declaration:

I, Katherine A. Michler, have received a Bachelor of Science degree from the University of Northern Iowa, and;

That, I declare that I have received training as a technical consultant as a member of the staff of Doug Vernier Telecommunications Consultants, and;

That, I have been a member of the firm for over nine years, and;

That, my qualifications are a matter of record with the Federal Communications Commission, and;

That, I am an Associate Member (#20792) of the Society of Broadcast Engineers, Indianapolis, Indiana, and;

That, the consulting firm of Doug Vernier Telecommunications Consultants has been retained by The President and Trustees of Miami University, and;

That, I have personally prepared these engineering showings, the technical information contained in same and the facts stated within are true to my knowledge, and;

That, under penalty of perjury, I declare that the foregoing is correct.

Katherine A. Michler Katherine A. Michler

Executed on February 22, 2007

Attachment A

Educational Community Radio,
Monthly Status Report

REFERENCE
38 58 02.0 N.
84 05 48.4 W.

CH# 204B - 88.7 MHz, Pwr= 50 kW, HAAT=150.0 M, COR= 408 M
Average Protected F(50-50)= 52.2 km

DISPLAY DATES
DATA 02-21-07
SEARCH 02-22-07

CH CALL CITY	TYPE STATE	AZI. <--	DIST FILE #	LAT. LNG.	Pwr(kW) HAAT(M)	INT(km) COR(M)	PRO(km) LICENSEE	*IN* (Overlap in km)	*OUT*
204B WOBO Batavia	APP DCX OH	0.0 0.0	0.00 BPED20070122AKE	38 58 02.0 84 05 48.4	10.998 147	104.1 408	38.7 Educational Community Radi	-142.78*<	-142.78*<
204B WOBO Batavia	LIC DEN OH	359.8 179.8	10.52 BLED19880202KB	39 03 43.0 84 05 50.0	15.500 151	111.4 402	42.0 Educational Community Radi	-139.58*<	-135.54*<
06+1C WSYX Columbus	LI DCY OH	40.2 220.9	142.07 BLCT19931022KE	39 56 16.0 83 01 16.0	100.000 286	523	101.3 Wsyx Licensee, Inc.	156.8R	-14.7M
205C1 WEKU Richmond	LIC CN KY	189.4 9.3	122.42 BMLED19990407KA	37 52 45.0 84 19 33.0	50.000 201	84.9 482	57.4 Eastern Kentucky Universit	-0.41<	8.29
258A WAOL Amelia	APP CX OH	359.9 179.9	15.51 BPH20070122AKI	39 06 25.0 84 05 50.0	2.000 175	0.0 438	0.0 First Broadcasting Capital	15.0R	0.5M
205A WMWX Miamitown	LIC DCX OH	298.2 117.6	84.30 BLED20060818AAA	39 19 18.0 84 57 33.0	3.974 184	51.0 381	34.1 Spryex Communications, Inc	0.75	0.78
206A WLMH Morrow	LIC CN OH	355.3 175.3	42.36 BLED19831024AF	39 20 51.0 84 08 13.0	0.047 19	0.5 276	4.6 Little Miami Local Schools	2.93	33.84
207A WMKV Reading	LIC DCN OH	314.6 134.4	40.61 BLED19950505KA	39 13 23.0 84 25 56.0	0.315 63	1.2 288	11.0 Lifesphere	3.30	26.16
202A WAIF Cincinnati	LIC CN OH	298.0 117.7	37.99 BMLED19920206KF	39 07 36.0 84 29 06.0	0.282 122	1.2 321	14.6 The Real Stepchild Radio O	4.19	20.28
202A WJVS Cincinnati	LIC CN OH	322.7 142.5	45.08 BLED1525	39 17 21.0 84 24 52.0	0.140 31	0.8 260	6.2 Great Oaks Joint Voc. Sch.	4.61	34.94
203B WMUB Oxford	LIC DCN OH	317.8 137.4	88.89 BLED19940407KB	39 33 26.0 84 47 35.0	1.012 183	37.1 449	24.7 The President & Trustees O	14.27	8.35<
205A WCSU-FM Wilberforce	LIC CX OH	12.9 193.0	85.30 BMLED20030324AAJ	39 42 57.0 83 52 27.0	1.000 53	19.8 350	13.3 Central State University	23.02	8.66
204B WUFM Columbus	LIC DCN OH	40.2 220.9	142.07 BLED19970602KA	39 56 16.0 83 01 16.0	0.173 230	57.1 473	18.1 Spirit Communications, Inc	43.83	12.41
258C3 WAOL Ripley	LIC CX OH	168.2 348.3	36.13 BLH20021101ABS	38 38 55.0 84 00 42.0	13.000 140	0.0 390	0.0 First Broadcasting Capital	17.0R	19.1M
203A WBMK Morehead	LIC CX KY	145.5 325.9	106.34 BLED20050511AAY	38 10 38.0 83 24 24.0	0.092 151	18.4 454	12.4 American Family Associatio	38.78	19.69
203A 980113MD Waverly	APP VN OH	71.6 252.4	103.82 BPED19980113MD	39 15 18.0 82 57 17.0	0.350 36	12.0 333	8.5 Life Radio Ministries Inc	46.49	26.92
203A 980113MD Waverly	APP VX OH	71.6 252.4	103.82 BPED19980113MD	39 15 18.0 82 57 17.0	0.350 -202	11.0 95	7.7 Life Radio Ministries, Inc	47.46	27.69
204B1 WPJY Blennerhassett	CP DCX WV	80.4 261.8	193.39 BPED19981006MK	39 14 06.0 81 53 16.0	8.772 101	93.0 352	31.0 Positive Alternative Radio	51.90	29.91
204C1 WMMT Whitesburg	LIC DEN KY	149.6 330.4	238.14 BLED19951023KA	37 06 38.0 82 44 15.0	15.000 551	156.6 1018	69.8 Appalshop, Incorporated	33.01	37.15
201A WDPR West Carrollton	LIC CX OH	351.1 171.0	84.73 BLED20050224ABR	39 43 16.0 84 15 00.0	0.600 238	1.5 503	24.2 Dayton Public Radio, Inc.	43.88	56.59
207A WVXC Chillicothe	LIC VN OH	61.5 242.1	89.13 BLED19880517KA	39 20 45.0 83 11 15.0	2.500 107	1.4 378	11.7 Cincinnati Public Radio, I	46.10	73.14
202A WOHP Portsmouth	LIC CN OH	105.7 286.4	98.91 BLED19920228KB	38 43 20.0 83 00 05.0	1.000 196	0.7 415	12.5 The Cedarville University	48.25	80.81
204A WHJM Anna	LIC VX OH	357.3 177.2	166.73 BLED20060612ABD	40 28 01.8 84 11 24.2	0.034 92	25.1 396	7.5 Friends Of Radio Maria, In	102.80	55.08
202A 980409MA Frankfort	APP DCN KY	219.5 39.0	108.37 BPED19980409MA	38 12 44.0 84 53 07.0	0.350 82	1.2 303	12.7 American Family Associatio	58.42	90.38
257A WSCH Aurora	LIC CN IN	270.1 89.6	73.73 BLH19891117KB	38 57 55.0 84 56 51.0	1.150 160	0.0 379	0.0 Columbus Radio, Inc.	15.0R	58.7M

CH CALL / CITY	TYPE / STATE	AZI. <-- / DIST / FILE #	LAT. / LNG.	Pwr(kW) / HAAT(M)	INT(km) / COR(M)	PRO(km) / LICENSEE	*IN* (Overlap in km)	*OUT*
257A WSCH Aurora	APP CX IN	270.1 89.6	73.73 BPH20041217AXP	38 57 55.0 84 56 51.0	2.000 175	0.0 339	0.0 Columbus Radio, Inc.	15.0R	58.7M
201A WKRY Versailles	LIC NVX IN	276.7 96.0	101.89 BLED20020830AAK	39 04 06.0 85 15 58.0	0.500 92	1.6 370	13.4 Good Shepherd Radio Inc.	60.19	84.46
203C2 WJIE-FM Okolona	LIC DEN KY	234.8 53.7	177.94 BLED19871208KE	38 01 59.0 85 45 16.0	24.500 190	55.4 362	37.4 Evangel Schools, Inc.	68.49	60.62
201A WAXG Mount Sterling	LIC CN KY	173.0 353.1	101.36 BLED19980617KA	38 03 39.0 83 57 20.0	0.300 53	0.3 337	5.6 American Family Associatio	60.69	91.71
06Z1C WRTV Indianapolis	LI HY IN	300.5 119.2	208.63 BMLCT20050414ABE	39 53 56.5 86 12 03.7	100.000 279	534	103.1 Mcgraw-hill Broadcasting C	146.6R	62.0M

Terrain database is NGDC 30 SEC
ERP and HAAT are on direct line to and from reference station.
• affixed to TV6 Margin= no direct-line contour overlap.
"*"affixed to 'IN' or 'Out' values = site inside protected contour. "<" = contour overlap

HOW TO READ THE FM COMPUTER PRINT-OUT

The computer printout should be self-explanatory for the most part. The parameters of the station being checked, (reference station) are printed in the heading. The 60 dBu protected contour is predicted from the Commission's F(50-50) table, while the 40, 54, 80 and 100 dBu contours are interference contours derived from the Commission's F(50-10) table. Contour distances are in kilometers and are predicted using spline interpolation from data points identical to those published in Report No. RS 76-01 by Gary C. Kalagian. Critical contour distances are determined using the Commission's TVFMINT FORTRAN subroutine. When interference contour distances are less than 16 kilometers the F(50-50) tables are used. If signal contour distances are less than 1.6 km the free-space equation is used.

The column listed "* IN *" is the sum of the reference station's 60 dBu protected contour and the data file station's interference contour subtracted from the distance between the stations. (All distances are derived by the method detailed in Sec. 73.208 of the Rules and Regulations as amended in Docket 80-90.) Therefore, the column is a measure of incoming interference. Negative distances in this column indicate the presence of interference. Listed antenna heights are the average heights of eight standard radials as found in the Commission's records unless otherwise noted, in which case the specific antenna heights and the DA power, if applicable, along the straight line azimuths between the reference station and the database station are used and visa versa. The column labeled "* OUT *" shows the distance in kilometers of overlap or clearance between the reference station's interference contour and the database station's protected contour. Negative distance figures in this column indicate outgoing overlap interference.

Under the "AZIMUTH" column, the first row of numbers indicate the bearings from True North of the data base stations in relationship with the reference station, while the numbers in the second row indicate the reverse bearings from the database station to the reference station.

The columns labeled "INT" and "PRO" hold the distance in kilometers of the appropriate interference contour and the protected contour of a data base station.

For I.F. relationships the "IN" and "OUT" columns change their significance. The letter "R" stands for the minimum **required** distance in kilometers, while the letter "M" in the next column follows the **available clear space** separation in kilometers. Minimum separation distances when displayed are taken from Sec 73.207 of the rules as amended. Canadian and Mexican separation distances, U/D ratios and protected contour values are from the US/Mexican Working Agreement and the US/Canada Working Agreement".

The first three letters of the "TYPE" column identify the current FCC status of the stations. The fourth letter will be a "D" if the facility is directional. "Z" indicates a 73.215 directional. An "N" indicates it is a 73.215 station that operates omni. The fifth letter will be an E, H or V depending on the type of antenna polarization. The sixth letter will be a "Y" if the antenna uses beam tilt or an "X" if the commission is not sure, otherwise it will be an "N".

Attachment B

WOBO.A v. WMUB - Contour Overlap

WOBO.A
BPED20070122AKE
Latitude: 38-58-02 N
Longitude: 084-05-48.40 W
ERP: 50.00 kW
Channel: 204
Frequency: 88.7 MHz
AMSL Height: 408.0 m
Elevation: 260.0 m
Horiz. Pattern: Directional
Vert. Pattern: No
Prop Model: None

WMUB
BLED19940407KB
Latitude: 39-33-26 N
Longitude: 084-47-35 W
ERP: 24.50 kW
Channel: 203
Frequency: 88.5 MHz
AMSL Height: 449.0 m
Elevation: 305.0 m
Horiz. Pattern: Directional
Vert. Pattern: No

2/22/2007

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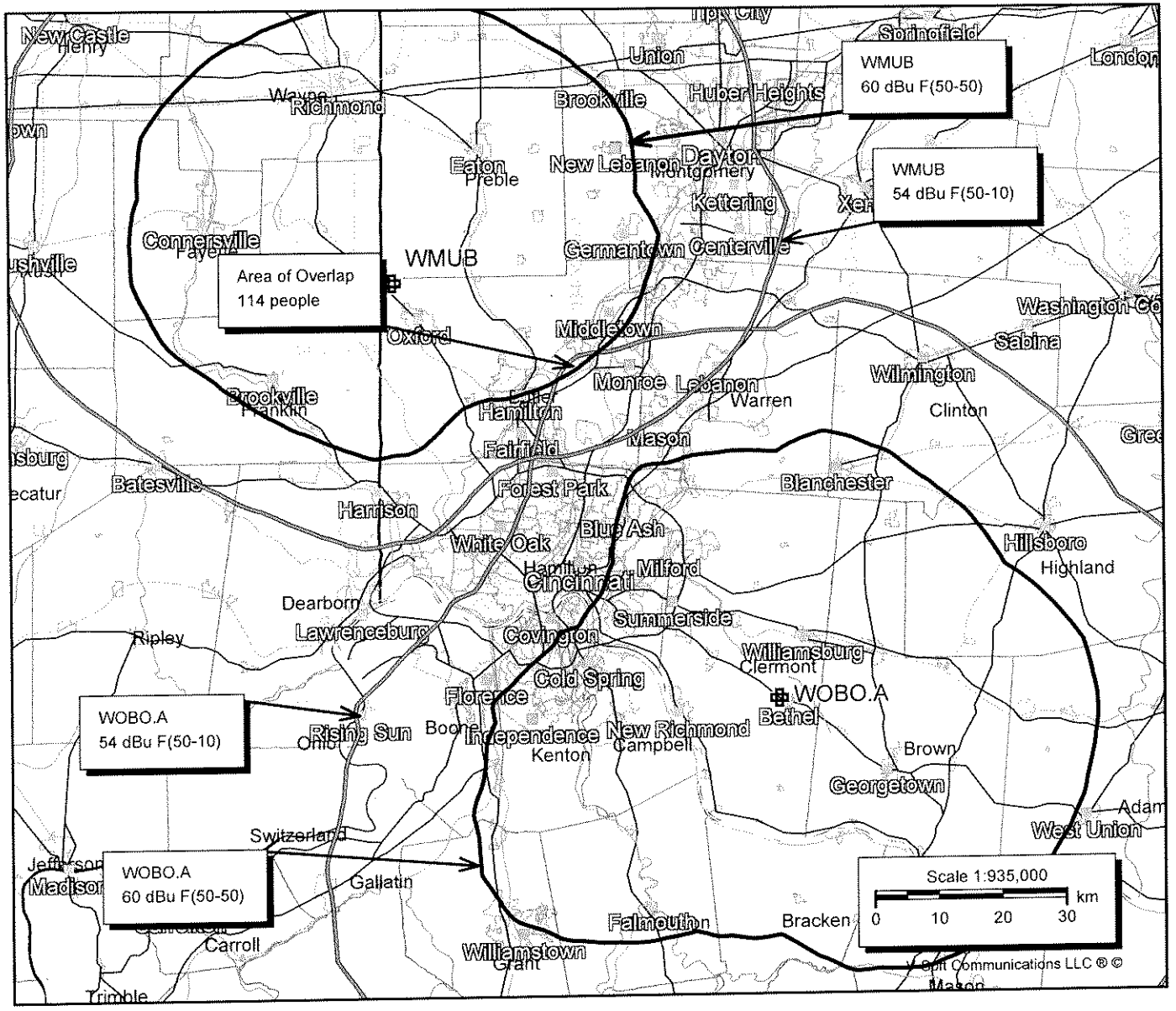


02-22-2007 30 Arc-Sec. Terrain Data FMOver Analysis

WOBO.A
Channel = 204B
Max ERP = 50 kW
RCAMSL = 408 M
N. Lat. 38 58 02.0
W. Lng. 84 05 48.4
Protected
60 dBu

WMUB BLED19940407KB
Channel = 203B
Max ERP = 24.5 kW
RCAMSL = 449 M
N. Lat. 39 33 26.0
W. Lng. 84 47 35.0
Interfering
54 dBu

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
258.0	024.1791	0160.9	047.1	169.4	001.5074	0168.5	076.6	40.11
259.0	022.9978	0162.8	046.9	169.3	001.4971	0168.5	075.8	40.34
260.0	021.8461	0165.2	046.7	169.1	001.4885	0168.5	075.0	40.58
261.0	020.9563	0166.9	046.5	169.0	001.4799	0168.5	074.1	40.82
262.0	020.0851	0168.8	046.4	168.8	001.4704	0168.5	073.3	41.05
263.0	019.2324	0169.0	046.0	168.5	001.4507	0168.4	072.6	41.24
264.0	018.3982	0168.0	045.5	168.0	001.4235	0168.4	071.8	41.41
265.0	017.5824	0167.6	045.1	167.6	001.3982	0168.4	071.1	41.57
266.0	016.7852	0167.5	044.7	167.2	001.3736	0168.3	070.4	41.72
267.0	016.0065	0172.3	044.8	167.2	001.3724	0168.3	069.6	41.98
268.0	015.2462	0178.4	044.9	167.2	001.3736	0168.3	068.8	42.25
269.0	014.5045	0184.4	045.0	167.1	001.3699	0168.3	068.0	42.50
270.0	013.7812	0187.7	044.8	166.9	001.3532	0168.3	067.3	42.69
271.0	013.2201	0182.8	044.1	166.1	001.3073	0168.1	066.7	42.72
272.0	012.6706	0177.8	043.3	165.2	001.2595	0167.9	066.2	42.72
273.0	012.1327	0172.7	042.4	164.3	001.2090	0168.2	065.7	42.71
274.0	011.6066	0169.4	041.7	163.5	001.1647	0168.2	065.3	42.70
275.0	011.0920	0167.9	041.2	162.9	001.1286	0168.7	064.8	42.74
276.0	010.5892	0166.0	040.6	162.1	001.0898	0169.2	064.4	42.76
277.0	010.0980	0164.3	040.0	161.4	001.0514	0169.3	064.0	42.74
278.0	009.6185	0162.9	039.4	160.7	001.0140	0169.3	063.6	42.71
279.0	009.1506	0161.3	038.8	159.9	000.9781	0168.8	063.3	42.64
280.0	008.6944	0160.4	038.3	159.2	000.9628	0168.2	063.0	42.65
281.0	008.3436	0158.6	037.8	158.5	000.9470	0167.5	062.7	42.64
282.0	008.0000	0157.0	037.2	157.7	000.9317	0167.5	062.4	42.66
283.0	007.6636	0155.6	036.7	157.0	000.9165	0166.8	062.2	42.64
284.0	007.3344	0155.4	036.3	156.4	000.9032	0166.1	061.9	42.64
285.0	007.0125	0157.1	036.2	155.9	000.8932	0166.1	061.5	42.73
286.0	006.6978	0159.2	036.0	155.4	000.8833	0166.0	061.1	42.81
287.0	006.3903	0160.5	035.8	154.8	000.8720	0166.0	060.8	42.87
288.0	006.0900	0159.2	035.2	154.1	000.8564	0166.2	060.7	42.83
289.0	005.7970	0155.6	034.4	153.1	000.8376	0166.4	060.9	42.70
290.0	005.5112	0152.2	033.6	152.2	000.8194	0166.8	061.0	42.56
291.0	005.5112	0149.7	033.4	151.6	000.8080	0166.8	060.8	42.56
292.0	005.5112	0148.7	033.3	151.1	000.7984	0167.5	060.6	42.65
293.0	005.5112	0148.2	033.2	150.7	000.7894	0167.5	060.2	42.71
294.0	005.5112	0147.6	033.1	150.2	000.7801	0168.5	060.0	42.81

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
295.0	005.5112	0146.7	033.0	149.7	000.7794	0168.5	059.7	42.90
296.0	005.5112	0145.6	032.9	149.2	000.7849	0169.2	059.5	43.05
297.0	005.5112	0144.4	032.8	148.6	000.7906	0169.2	059.3	43.15
298.0	005.5112	0143.1	032.6	148.1	000.7964	0169.5	059.1	43.26
299.0	005.5112	0142.0	032.5	147.6	000.8021	0169.5	058.9	43.35
300.0	005.5112	0141.3	032.4	147.0	000.8076	0169.4	058.7	43.45
301.0	005.5112	0141.3	032.4	146.5	000.8130	0169.4	058.5	43.57
302.0	005.5112	0141.7	032.5	146.1	000.8181	0169.3	058.2	43.69
303.0	005.5112	0142.6	032.6	145.6	000.8232	0169.3	057.9	43.84
304.0	005.5112	0143.8	032.7	145.1	000.8283	0169.6	057.6	44.01
305.0	005.5112	0145.3	032.9	144.6	000.8335	0169.6	057.2	44.17
306.0	005.5112	0147.0	033.1	144.1	000.8387	0170.6	056.8	44.38
307.0	005.5112	0148.6	033.2	143.6	000.8442	0170.6	056.5	44.54
308.0	005.5112	0150.1	033.4	143.1	000.8499	0172.1	056.2	44.76
309.0	005.5112	0151.5	033.6	142.6	000.8558	0172.1	055.9	44.91
310.0	005.5112	0152.8	033.7	142.0	000.8619	0174.0	055.6	45.13
311.0	005.7970	0154.0	034.3	141.5	000.8673	0174.0	054.9	45.41
312.0	006.0900	0155.2	034.8	141.0	000.8731	0176.0	054.3	45.77
313.0	006.3903	0156.2	035.3	140.5	000.8793	0178.0	053.7	46.12
314.0	006.6978	0157.0	035.8	139.9	000.8910	0178.0	053.2	46.39
315.0	007.0125	0157.8	036.2	139.2	000.9207	0179.9	052.6	46.82
316.0	007.3344	0158.6	036.7	138.6	000.9525	0179.9	052.2	47.15
317.0	007.6636	0159.3	037.1	137.9	000.9863	0181.7	051.7	47.57
318.0	008.0000	0160.2	037.6	137.1	001.0222	0183.3	051.2	47.97
319.0	008.3436	0161.2	038.0	136.4	001.0603	0184.6	050.8	48.36
320.0	008.6944	0162.4	038.5	135.6	001.1007	0184.6	050.4	48.69
321.0	008.9126	0163.9	038.9	134.8	001.1429	0185.6	050.0	49.02
322.0	009.1335	0165.9	039.3	134.0	001.1877	0186.1	049.7	49.34
323.0	009.3571	0168.7	039.8	133.1	001.2354	0186.4	049.3	49.67
324.0	009.5834	0172.2	040.4	132.2	001.2867	0186.6	048.9	50.02
325.0	009.8125	0175.9	040.9	131.2	001.3411	0186.9	048.5	50.37
326.0	010.0442	0179.1	041.4	130.2	001.3972	0186.9	048.2	50.66
327.0	010.2786	0181.1	041.8	129.3	001.4705	0186.8	048.1	50.93
328.0	010.5157	0181.8	042.0	128.4	001.5491	0186.7	048.1	51.16
329.0	010.7555	0181.3	042.2	127.5	001.6261	0186.6	048.2	51.32
330.0	010.9981	0179.9	042.2	126.6	001.7012	0186.6	048.4	51.43
331.0	010.9981	0177.8	042.1	125.9	001.7657	0186.6	048.9	51.41
332.0	010.9981	0175.2	041.8	125.3	001.8259	0186.7	049.4	51.35
333.0	010.9981	0171.9	041.5	124.7	001.8802	0186.7	050.0	51.24
334.0	010.9981	0168.5	041.2	124.2	001.9306	0186.6	050.7	51.10
335.0	010.9981	0165.8	040.9	123.7	001.9820	0186.6	051.3	50.97
336.0	010.9981	0164.4	040.7	123.1	002.0391	0186.4	051.8	50.88
337.0	010.9981	0163.7	040.6	122.5	002.0996	0185.9	052.3	50.81
338.0	010.9981	0163.3	040.6	121.9	002.1607	0185.9	052.7	50.77
339.0	010.9981	0162.8	040.5	121.3	002.2205	0185.3	053.2	50.68
340.0	010.9981	0162.3	040.5	120.7	002.2786	0185.3	053.7	50.60
341.0	010.9981	0161.7	040.4	120.2	002.3343	0184.5	054.2	50.48
342.0	010.9981	0160.6	040.3	119.7	002.3938	0184.5	054.7	50.37
343.0	010.9981	0159.2	040.1	119.3	002.4526	0183.7	055.3	50.22
344.0	010.9981	0157.8	040.0	118.9	002.5083	0183.7	055.9	50.08
345.0	010.9981	0156.6	039.8	118.5	002.5647	0183.1	056.5	49.93

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
346.0	010.9981	0155.7	039.7	118.1	002.6230	0183.1	057.1	49.81
347.0	010.9981	0155.2	039.7	117.7	002.6828	0183.1	057.7	49.70
348.0	010.9981	0154.7	039.6	117.3	002.7422	0182.8	058.2	49.57
349.0	010.9981	0154.2	039.5	116.9	002.7983	0182.8	058.8	49.44
350.0	010.9981	0153.4	039.4	116.6	002.8487	0182.8	059.4	49.30
351.0	010.9981	0152.5	039.3	116.3	002.8943	0182.2	060.0	49.11
352.0	010.9981	0151.6	039.2	116.0	002.9393	0182.2	060.7	48.96
353.0	010.9981	0150.9	039.1	115.7	002.9840	0182.2	061.3	48.80
354.0	010.9981	0150.3	039.1	115.4	003.0272	0181.1	061.9	48.60
355.0	010.9981	0149.5	039.0	115.1	003.0661	0181.1	062.5	48.43
356.0	010.9981	0148.8	038.9	114.9	003.1046	0181.1	063.2	48.26
357.0	010.9981	0148.3	038.8	114.7	003.1425	0181.1	063.8	48.10
358.0	010.9981	0147.7	038.8	114.4	003.1784	0179.7	064.4	47.87
359.0	010.9981	0147.5	038.7	114.2	003.2173	0179.7	065.0	47.71
000.0	010.9981	0147.5	038.7	113.9	003.2569	0179.7	065.7	47.56
001.0	011.5777	0147.4	039.1	113.4	003.3495	0178.6	066.1	47.48
002.0	012.1722	0147.4	039.6	112.8	003.4403	0178.6	066.6	47.43
003.0	012.7816	0147.4	040.0	112.3	003.5292	0177.9	067.1	47.34
004.0	013.4058	0147.5	040.4	111.8	003.6171	0177.9	067.6	47.27
005.0	014.0450	0147.5	040.8	111.3	003.7006	0177.5	068.2	47.16
006.0	014.6990	0147.2	041.1	110.8	003.7778	0177.5	068.8	47.06
007.0	015.3680	0146.9	041.4	110.4	003.8509	0176.8	069.4	46.90
008.0	016.0518	0146.7	041.8	110.0	003.9235	0176.8	070.0	46.78
009.0	016.7505	0146.6	042.1	109.6	004.0176	0176.8	070.7	46.66
010.0	017.4641	0146.5	042.5	109.2	004.1079	0175.8	071.4	46.50
011.0	017.4641	0146.4	042.4	109.1	004.1266	0175.8	072.1	46.27
012.0	017.4641	0146.3	042.4	109.1	004.1436	0175.8	072.8	46.05
013.0	017.4641	0146.2	042.4	109.0	004.1602	0175.8	073.6	45.82
014.0	017.4641	0146.2	042.4	108.9	004.1748	0175.8	074.3	45.60
015.0	017.4641	0146.2	042.4	108.9	004.1864	0175.8	075.0	45.37
016.0	017.4641	0146.0	042.4	108.9	004.1907	0175.8	075.8	45.13
017.0	017.4641	0145.5	042.3	108.9	004.1848	0175.8	076.5	44.89
018.0	017.4641	0144.8	042.2	108.9	004.1734	0175.8	077.3	44.64

02-22-2007 30 Arc-Sec. Sec. Terrain Data

WMUB BLED19940407KB
Channel = 203B
Max ERP = 24.5 kW
RCAMSL = 449 M
N. Lat. 39 33 26.0
W. Lng. 84 47 35.0
Protected
60 dBu

WOBO.A
Channel = 204B
Max ERP = 50 kW
RCAMSL = 408 M
N. Lat. 38 58 02.0
W. Lng. 84 05 48.4
Interfering
54 dBu

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
077.0	014.3455	0154.7	041.8	345.7	010.9981	0155.7	077.4	47.92
078.0	014.4808	0155.5	042.0	345.8	010.9981	0155.7	076.6	48.15
079.0	014.6167	0156.2	042.2	345.9	010.9981	0155.7	075.9	48.39
080.0	014.7533	0157.2	042.4	346.0	010.9981	0155.7	075.1	48.62
081.0	014.1549	0158.0	042.1	345.7	010.9981	0155.7	074.4	48.85
082.0	013.5689	0158.3	041.8	345.4	010.9981	0156.6	073.7	49.11
083.0	012.9953	0158.6	041.5	345.1	010.9981	0156.6	073.0	49.33
084.0	012.4341	0159.2	041.1	344.8	010.9981	0156.6	072.4	49.54
085.0	011.8853	0159.9	040.9	344.5	010.9981	0157.8	071.7	49.81
086.0	011.3488	0161.5	040.6	344.2	010.9981	0157.8	071.1	50.02
087.0	010.8247	0162.7	040.4	343.9	010.9981	0157.8	070.4	50.23
088.0	010.3131	0164.0	040.1	343.5	010.9981	0157.8	069.8	50.43
089.0	009.8138	0165.4	039.9	343.1	010.9981	0159.2	069.2	50.70
090.0	009.3269	0166.5	039.5	342.7	010.9981	0159.2	068.6	50.89
091.0	009.0359	0167.4	039.4	342.4	010.9981	0160.6	068.0	51.15
092.0	008.7496	0168.3	039.2	342.1	010.9981	0160.6	067.5	51.35
093.0	008.4678	0169.3	039.0	341.7	010.9981	0160.6	066.9	51.54
094.0	008.1907	0169.9	038.8	341.4	010.9981	0161.7	066.3	51.77
095.0	007.9182	0170.3	038.6	340.9	010.9981	0161.7	065.8	51.95
096.0	007.6503	0170.7	038.3	340.5	010.9981	0162.3	065.3	52.15
097.0	007.3870	0171.0	038.1	340.0	010.9981	0162.3	064.8	52.31
098.0	007.1283	0171.3	037.8	339.5	010.9981	0162.3	064.4	52.46
099.0	006.8743	0171.5	037.5	339.0	010.9981	0162.8	063.9	52.63
100.0	006.6248	0172.2	037.3	338.5	010.9981	0162.8	063.5	52.78
101.0	006.3226	0172.6	036.9	338.0	010.9981	0163.3	063.1	52.93
102.0	006.0274	0173.1	036.6	337.4	010.9981	0163.7	062.8	53.06
103.0	005.7393	0173.6	036.2	336.8	010.9981	0163.7	062.5	53.17
104.0	005.4582	0173.9	035.9	336.2	010.9981	0164.4	062.2	53.30
105.0	005.1842	0174.0	035.4	335.5	010.9981	0165.8	062.0	53.45
106.0	004.9172	0174.1	035.0	334.8	010.9981	0165.8	061.8	53.51
107.0	004.6574	0174.5	034.6	334.2	010.9981	0168.5	061.6	53.71
108.0	004.4045	0175.0	034.2	333.5	010.9981	0168.5	061.5	53.76
109.0	004.1587	0175.8	033.8	332.9	010.9981	0171.9	061.3	53.97
110.0	003.9200	0176.8	033.4	332.2	010.9981	0175.2	061.2	54.16**

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
111.0	003.7456	0177.5	033.1	331.6	010.9981	0175.2	061.1	54.22**
112.0	003.5751	0177.9	032.8	331.0	010.9981	0177.8	061.0	54.37**
113.0	003.4087	0178.6	032.4	330.4	010.9981	0179.9	060.9	54.49**
114.0	003.2462	0179.7	032.1	329.8	010.9459	0179.9	060.8	54.51**
115.0	003.0876	0181.1	031.8	329.2	010.8055	0181.3	060.7	54.55**
116.0	002.9330	0182.2	031.5	328.6	010.6615	0181.3	060.7	54.50**
117.0	002.7824	0182.8	031.2	328.0	010.5143	0181.8	060.7	54.46**
118.0	002.6358	0183.1	030.8	327.4	010.3668	0181.1	060.8	54.34**
119.0	002.4931	0183.7	030.4	326.8	010.2244	0181.1	060.8	54.26**
120.0	002.3545	0184.5	030.1	326.2	010.0859	0179.1	060.9	54.08**
121.0	002.2493	0185.3	029.8	325.6	009.9584	0179.1	060.9	54.02**
122.0	002.1466	0185.9	029.5	325.1	009.8314	0175.9	061.0	53.80
123.0	002.0463	0186.4	029.2	324.5	009.7055	0175.9	061.0	53.72
124.0	001.9483	0186.6	028.9	324.0	009.5808	0172.2	061.2	53.45
125.0	001.8528	0186.7	028.6	323.4	009.4579	0168.7	061.3	53.17
126.0	001.7597	0186.6	028.3	322.9	009.3374	0168.7	061.5	53.05
127.0	001.6690	0186.6	027.9	322.4	009.2202	0165.9	061.7	52.80
128.0	001.5806	0186.7	027.6	321.9	009.1065	0165.9	061.9	52.67
129.0	001.4947	0186.8	027.3	321.4	008.9963	0163.9	062.1	52.44
130.0	001.4112	0186.9	026.9	320.9	008.8893	0163.9	062.3	52.30
131.0	001.3530	0186.9	026.7	320.4	008.7884	0162.4	062.5	52.12
132.0	001.2960	0186.6	026.4	320.0	008.6868	0162.4	062.7	52.00
133.0	001.2403	0186.4	026.1	319.5	008.5305	0162.4	062.9	51.85
134.0	001.1858	0186.1	025.8	319.1	008.3792	0161.2	063.2	51.63
135.0	001.1325	0185.6	025.5	318.7	008.2330	0161.2	063.4	51.46
136.0	001.0804	0184.6	025.2	318.3	008.0920	0160.2	063.7	51.24
137.0	001.0296	0183.3	024.9	317.9	007.9568	0160.2	064.1	51.05
138.0	000.9800	0181.7	024.5	317.5	007.8280	0159.3	064.4	50.81
139.0	000.9316	0179.9	024.1	317.1	007.7055	0159.3	064.8	50.61
140.0	000.8844	0178.0	023.7	316.8	007.5897	0159.3	065.2	50.41
141.0	000.8733	0176.0	023.6	316.4	007.4748	0158.6	065.4	50.24
142.0	000.8622	0174.0	023.4	316.1	007.3637	0158.6	065.7	50.10
143.0	000.8513	0172.1	023.2	315.8	007.2560	0158.6	065.9	49.96
144.0	000.8403	0170.6	023.0	315.4	007.1512	0157.8	066.1	49.79
145.0	000.8295	0169.6	022.9	315.1	007.0477	0157.8	066.3	49.66
146.0	000.8187	0169.3	022.8	314.8	006.9449	0157.8	066.5	49.54
147.0	000.8080	0169.4	022.8	314.5	006.8429	0157.0	066.6	49.39
148.0	000.7973	0169.5	022.7	314.1	006.7433	0157.0	066.8	49.28
149.0	000.7868	0169.2	022.6	313.8	006.6476	0157.0	066.9	49.15
150.0	000.7763	0168.5	022.5	313.5	006.5564	0157.0	067.2	49.02
151.0	000.7956	0167.5	022.6	313.2	006.4532	0156.2	067.2	48.89
152.0	000.8151	0166.8	022.6	312.9	006.3499	0156.2	067.3	48.80
153.0	000.8349	0166.4	022.7	312.5	006.2455	0156.2	067.3	48.72
154.0	000.8549	0166.2	022.9	312.2	006.1414	0155.2	067.4	48.58
155.0	000.8752	0166.0	023.0	311.8	006.0380	0155.2	067.4	48.49
156.0	000.8957	0166.1	023.1	311.5	005.9330	0154.0	067.5	48.34
157.0	000.9164	0166.8	023.3	311.1	005.8256	0154.0	067.5	48.25
158.0	000.9374	0167.5	023.4	310.7	005.7182	0154.0	067.5	48.15
159.0	000.9586	0168.2	023.6	310.4	005.6122	0152.8	067.6	47.99
160.0	000.9800	0168.8	023.7	310.0	005.5112	0152.8	067.6	47.89
161.0	001.0306	0169.3	024.0	309.6	005.5112	0152.8	067.6	47.90

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
162.0	001.0825	0169.2	024.3	309.1	005.5112	0151.5	067.6	47.83
163.0	001.1357	0168.7	024.5	308.7	005.5112	0151.5	067.7	47.82
164.0	001.1901	0168.2	024.7	308.3	005.5112	0150.1	067.7	47.73
165.0	001.2458	0167.9	025.0	307.9	005.5112	0150.1	067.8	47.70
166.0	001.3028	0168.1	025.2	307.5	005.5112	0148.6	067.9	47.60
167.0	001.3611	0168.3	025.5	307.1	005.5112	0148.6	068.0	47.58
168.0	001.4206	0168.4	025.8	306.6	005.5112	0148.6	068.1	47.54
169.0	001.4814	0168.5	026.0	306.2	005.5112	0147.0	068.2	47.42
170.0	001.5435	0168.8	026.3	305.8	005.5112	0147.0	068.3	47.38
171.0	001.5794	0168.9	026.4	305.4	005.5112	0145.3	068.5	47.22
172.0	001.6157	0169.2	026.6	305.1	005.5112	0145.3	068.8	47.14
173.0	001.6524	0169.5	026.7	304.7	005.5112	0145.3	069.0	47.07
174.0	001.6895	0169.7	026.9	304.4	005.5112	0143.8	069.3	46.90
175.0	001.7270	0168.8	026.9	304.1	005.5112	0143.8	069.6	46.80
176.0	001.7649	0167.1	026.9	303.8	005.5112	0143.8	070.0	46.68
177.0	001.8033	0164.9	026.9	303.6	005.5112	0143.8	070.3	46.56
178.0	001.8420	0163.5	026.9	303.4	005.5112	0142.6	070.7	46.38
179.0	001.8812	0162.1	026.9	303.2	005.5112	0142.6	071.1	46.26
180.0	001.9208	0161.9	027.1	302.9	005.5112	0142.6	071.4	46.15
181.0	001.9483	0162.3	027.2	302.6	005.5112	0142.6	071.8	46.05
182.0	001.9761	0162.8	027.3	302.3	005.5112	0141.7	072.1	45.89
183.0	002.0040	0163.1	027.4	302.1	005.5112	0141.7	072.5	45.78
184.0	002.0321	0163.3	027.5	301.8	005.5112	0141.7	072.9	45.66
185.0	002.0605	0163.1	027.6	301.6	005.5112	0141.7	073.2	45.54
186.0	002.0890	0163.0	027.7	301.4	005.5112	0141.3	073.6	45.39
187.0	002.1177	0161.9	027.7	301.2	005.5112	0141.3	074.1	45.25
188.0	002.1466	0160.2	027.6	301.1	005.5112	0141.3	074.5	45.11
189.0	002.1757	0158.3	027.5	301.0	005.5112	0141.3	075.0	44.96
190.0	002.2050	0156.8	027.5	300.9	005.5112	0141.3	075.5	44.82
191.0	002.2050	0155.6	027.4	300.9	005.5112	0141.3	076.0	44.67
192.0	002.2050	0154.6	027.3	300.8	005.5112	0141.3	076.4	44.53
193.0	002.2050	0153.7	027.3	300.8	005.5112	0141.3	076.9	44.38
194.0	002.2050	0153.5	027.2	300.7	005.5112	0141.3	077.4	44.24
195.0	002.2050	0153.7	027.3	300.6	005.5112	0141.3	077.8	44.10
196.0	002.2050	0153.5	027.2	300.5	005.5112	0141.3	078.3	43.97
197.0	002.2050	0152.7	027.2	300.5	005.5112	0141.3	078.8	43.82

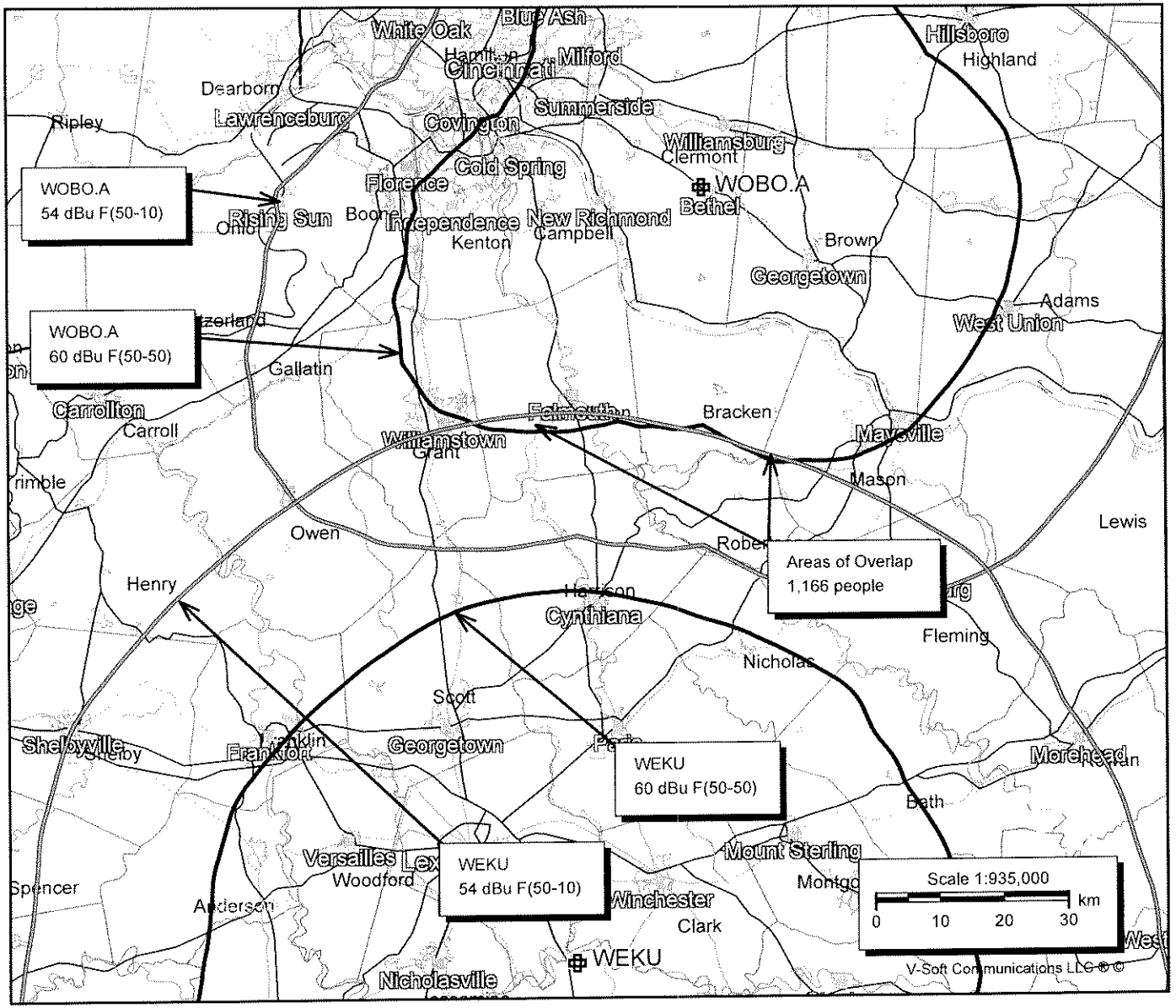
Attachment C

WOBO.A v. WEKU - Contour Overlap

WOBO.A
BPED20070122AKE
Latitude: 38-58-02 N
Longitude: 084-05-48.40 W
ERP: 50.00 kW
Channel: 204
Frequency: 88.7 MHz
AMSL Height: 408.0 m
Elevation: 260.0 m
Horiz. Pattern: Directional
Vert. Pattern: No
Prop Model: None

WEKU
BMLED19990407KA
Latitude: 37-52-45 N
Longitude: 084-19-33 W
ERP: 50.00 kW
Channel: 205
Frequency: 88.9 MHz
AMSL Height: 482.0 m
Elevation: 277.0 m
Horiz. Pattern: Omni
Vert. Pattern: No

2/22/2007



02-22-2007 30 Arc-Sec. Terrain Data FMOver Analysis

WOBO.A
Channel = 204B
Max ERP = 50 kW
RCAMSL = 408 M
N. Lat. 38 58 02.0
W. Lng. 84 05 48.4
Protected
60 dBu

WEKU BMLED19990407KA
Channel = 205C1
Max ERP = 50 kW
RCAMSL = 482 M
N. Lat. 37 52 45.0
W. Lng. 84 19 33.0
Interfering
54 dBu

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
129.0	050.0000	0130.4	049.5	032.8	050.0000	0210.9	107.1	47.85
130.0	050.0000	0130.3	049.5	032.7	050.0000	0210.9	106.2	48.08
131.0	050.0000	0130.3	049.4	032.7	050.0000	0210.9	105.3	48.30
132.0	050.0000	0130.3	049.5	032.6	050.0000	0210.9	104.5	48.53
133.0	050.0000	0130.5	049.5	032.6	050.0000	0210.9	103.6	48.76
134.0	050.0000	0130.9	049.5	032.5	050.0000	0210.9	102.8	49.00
135.0	050.0000	0131.3	049.6	032.4	050.0000	0209.5	101.9	49.19
136.0	050.0000	0131.8	049.7	032.4	050.0000	0209.5	101.0	49.44
137.0	050.0000	0132.3	049.7	032.3	050.0000	0209.5	100.2	49.68
138.0	050.0000	0132.6	049.8	032.2	050.0000	0209.5	099.3	49.93
139.0	050.0000	0132.9	049.8	032.1	050.0000	0209.5	098.5	50.17
140.0	050.0000	0133.3	049.9	032.0	050.0000	0209.5	097.6	50.42
141.0	050.0000	0133.8	050.0	031.9	050.0000	0209.5	096.8	50.67
142.0	050.0000	0134.3	050.0	031.7	050.0000	0209.5	095.9	50.93
143.0	050.0000	0134.9	050.1	031.6	050.0000	0209.5	095.1	51.18
144.0	050.0000	0135.5	050.2	031.4	050.0000	0208.2	094.2	51.39
145.0	050.0000	0136.0	050.3	031.3	050.0000	0208.2	093.4	51.64
146.0	050.0000	0136.5	050.3	031.1	050.0000	0208.2	092.6	51.89
147.0	050.0000	0136.8	050.4	030.9	050.0000	0208.2	091.8	52.14
148.0	050.0000	0136.9	050.4	030.7	050.0000	0208.2	091.0	52.39
149.0	050.0000	0137.4	050.5	030.4	050.0000	0207.0	090.2	52.59
150.0	050.0000	0138.4	050.6	030.3	050.0000	0207.0	089.3	52.85
151.0	050.0000	0139.7	050.8	030.1	050.0000	0207.0	088.5	53.12
152.0	050.0000	0140.8	050.9	029.9	050.0000	0207.0	087.6	53.38
153.0	050.0000	0141.4	051.0	029.6	050.0000	0207.0	086.8	53.63
154.0	050.0000	0141.7	051.1	029.3	050.0000	0206.1	086.1	53.84
155.0	050.0000	0142.1	051.1	029.0	050.0000	0206.1	085.3	54.08**
156.0	050.0000	0142.8	051.2	028.7	050.0000	0206.1	084.5	54.32**
157.0	050.0000	0143.4	051.3	028.4	050.0000	0205.3	083.8	54.53**
158.0	050.0000	0143.9	051.4	028.0	050.0000	0205.3	083.0	54.77**
159.0	050.0000	0144.3	051.4	027.6	050.0000	0205.3	082.3	55.00**
160.0	050.0000	0145.0	051.5	027.3	050.0000	0204.8	081.6	55.21**
161.0	050.0000	0146.3	051.7	026.9	050.0000	0204.8	080.8	55.46**
162.0	050.0000	0147.9	051.9	026.6	050.0000	0204.8	080.0	55.72**
163.0	050.0000	0149.5	052.1	026.2	050.0000	0204.1	079.2	55.95**
164.0	050.0000	0151.1	052.3	025.9	050.0000	0204.1	078.4	56.20**
165.0	050.0000	0152.4	052.5	025.5	050.0000	0203.1	077.7	56.40**

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
166.0	050.0000	0152.6	052.5	024.9	050.0000	0203.1	077.1	56.59**
167.0	050.0000	0151.3	052.4	024.3	050.0000	0201.9	076.7	56.69**
168.0	050.0000	0149.5	052.1	023.7	050.0000	0201.9	076.3	56.80**
169.0	050.0000	0148.3	052.0	023.1	050.0000	0200.6	075.9	56.88**
170.0	050.0000	0147.7	051.9	022.5	050.0000	0199.3	075.5	56.96**
171.0	050.0000	0147.1	051.8	021.9	050.0000	0199.3	075.1	57.10**
172.0	050.0000	0146.1	051.7	021.2	050.0000	0198.1	074.8	57.16**
173.0	050.0000	0144.7	051.5	020.5	050.0000	0198.1	074.5	57.25**
174.0	050.0000	0143.4	051.3	019.9	050.0000	0197.4	074.2	57.30**
175.0	050.0000	0142.2	051.1	019.2	050.0000	0197.2	074.0	57.37**
176.0	050.0000	0141.2	051.0	018.5	050.0000	0197.2	073.8	57.44**
177.0	050.0000	0140.6	050.9	017.9	050.0000	0197.6	073.5	57.54**
178.0	050.0000	0140.3	050.9	017.2	050.0000	0198.5	073.3	57.67**
179.0	050.0000	0140.6	050.9	016.6	050.0000	0198.5	072.9	57.77**
180.0	050.0000	0141.0	051.0	015.9	050.0000	0199.4	072.6	57.91**
181.0	050.0000	0141.3	051.0	015.2	050.0000	0199.9	072.4	58.02**
182.0	050.0000	0142.6	051.2	014.6	050.0000	0199.9	072.0	58.15**
183.0	050.0000	0143.8	051.4	013.9	050.0000	0200.0	071.6	58.27**
184.0	050.0000	0145.0	051.5	013.2	050.0000	0200.0	071.3	58.37**
185.0	050.0000	0146.1	051.7	012.6	050.0000	0200.0	071.0	58.47**
186.0	050.0000	0147.0	051.8	011.8	050.0000	0200.0	070.8	58.54**
187.0	050.0000	0147.4	051.9	011.1	050.0000	0200.2	070.7	58.60**
188.0	050.0000	0147.5	051.9	010.4	050.0000	0200.5	070.6	58.63**
189.0	050.0000	0147.4	051.8	009.7	050.0000	0200.5	070.6	58.63**
190.0	050.0000	0147.3	051.8	008.9	050.0000	0201.0	070.6	58.65**
191.0	050.0000	0147.5	051.9	008.2	050.0000	0201.7	070.6	58.67**
192.0	050.0000	0148.1	051.9	007.5	050.0000	0202.8	070.6	58.73**
193.0	050.0000	0149.5	052.1	006.7	050.0000	0202.8	070.5	58.76**
194.0	050.0000	0151.1	052.3	006.0	050.0000	0203.7	070.4	58.83**
195.0	050.0000	0152.5	052.5	005.2	050.0000	0204.6	070.3	58.88**
196.0	050.0000	0153.0	052.6	004.5	050.0000	0205.2	070.4	58.87**
197.0	050.0000	0153.0	052.6	003.8	050.0000	0205.2	070.6	58.81**
198.0	050.0000	0153.2	052.6	003.1	050.0000	0206.1	070.8	58.78**
199.0	050.0000	0153.7	052.7	002.3	050.0000	0206.6	071.0	58.73**
200.0	050.0000	0154.3	052.8	001.6	050.0000	0206.6	071.2	58.67**
201.0	050.0000	0154.7	052.8	000.9	050.0000	0207.2	071.5	58.60**
202.0	050.0000	0155.1	052.9	000.2	050.0000	0207.8	071.8	58.53**
203.0	050.0000	0155.6	052.9	359.5	050.0000	0207.8	072.1	58.44**
204.0	050.0000	0156.2	053.0	358.8	050.0000	0207.9	072.4	58.33**
205.0	050.0000	0156.9	053.1	358.1	050.0000	0207.9	072.7	58.23**
206.0	050.0000	0158.1	053.2	357.5	050.0000	0207.8	073.0	58.12**
207.0	050.0000	0159.8	053.4	356.7	050.0000	0207.8	073.3	58.03**
208.0	050.0000	0161.7	053.7	356.0	050.0000	0207.4	073.6	57.92**
209.0	050.0000	0163.3	053.9	355.3	050.0000	0207.5	073.9	57.81**
210.0	050.0000	0164.3	054.0	354.7	050.0000	0207.5	074.4	57.67**
211.0	050.0000	0164.7	054.0	354.1	050.0000	0207.6	074.9	57.50**
212.0	050.0000	0164.9	054.0	353.5	050.0000	0207.6	075.4	57.32**
213.0	050.0000	0165.2	054.1	353.0	050.0000	0207.8	076.0	57.14**
214.0	050.0000	0166.0	054.2	352.4	050.0000	0207.8	076.6	56.96**
215.0	050.0000	0167.5	054.3	351.8	050.0000	0207.8	077.1	56.79**
216.0	050.0000	0169.2	054.5	351.2	050.0000	0207.7	077.6	56.62**

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
217.0	050.0000	0170.5	054.7	350.6	050.0000	0207.7	078.2	56.43**
218.0	050.0000	0171.5	054.8	350.1	050.0000	0207.5	078.8	56.21**
219.0	050.0000	0173.0	054.9	349.6	050.0000	0207.5	079.4	56.01**
220.0	050.0000	0175.2	055.1	349.0	050.0000	0207.2	080.0	55.81**
221.0	050.0000	0177.5	055.4	348.5	050.0000	0207.3	080.6	55.61**
222.0	050.0000	0179.1	055.5	348.0	050.0000	0207.3	081.3	55.39**
223.0	050.0000	0179.2	055.5	347.6	050.0000	0207.3	082.1	55.14**
224.0	050.0000	0178.0	055.4	347.3	050.0000	0207.5	083.0	54.87**
225.0	050.0000	0176.5	055.3	347.0	050.0000	0207.5	083.9	54.58**
226.0	050.0000	0175.9	055.2	346.7	050.0000	0207.5	084.7	54.31**
227.0	050.0000	0176.7	055.3	346.3	050.0000	0207.8	085.5	54.07**
228.0	050.0000	0178.3	055.4	345.9	050.0000	0207.8	086.3	53.83
229.0	050.0000	0180.1	055.6	345.6	050.0000	0207.8	087.1	53.58
230.0	050.0000	0181.5	055.7	345.2	050.0000	0207.9	087.9	53.33
231.0	050.0000	0182.0	055.8	344.9	050.0000	0207.9	088.8	53.05
232.0	050.0000	0181.1	055.7	344.7	050.0000	0207.9	089.7	52.77
233.0	050.0000	0179.0	055.5	344.6	050.0000	0207.9	090.7	52.47
234.0	050.0000	0176.4	055.3	344.5	050.0000	0207.9	091.7	52.16
235.0	050.0000	0173.8	055.0	344.5	050.0000	0207.9	092.7	51.86
236.0	050.0000	0171.5	054.8	344.4	050.0000	0207.9	093.6	51.56
237.0	050.0000	0169.7	054.6	344.4	050.0000	0207.9	094.6	51.27
238.0	050.0000	0168.2	054.4	344.3	050.0000	0207.9	095.6	50.98
239.0	050.0000	0166.9	054.3	344.2	050.0000	0207.9	096.5	50.69
240.0	050.0000	0165.5	054.1	344.2	050.0000	0207.9	097.5	50.41
241.0	050.0000	0164.0	053.9	344.2	050.0000	0207.9	098.4	50.13
242.0	050.0000	0162.9	053.8	344.1	050.0000	0207.9	099.4	49.86
243.0	050.0000	0162.2	053.7	344.1	050.0000	0207.9	100.3	49.59
244.0	050.0000	0161.7	053.7	344.0	050.0000	0207.9	101.3	49.32
245.0	050.0000	0161.2	053.6	343.9	050.0000	0207.9	102.2	49.06
246.0	050.0000	0161.2	053.6	343.9	050.0000	0207.9	103.1	48.80
247.0	050.0000	0162.4	053.7	343.7	050.0000	0207.9	104.0	48.56
248.0	050.0000	0164.3	054.0	343.6	050.0000	0207.9	104.9	48.31
249.0	050.0000	0166.4	054.2	343.4	050.0000	0207.9	105.9	48.07

02-22-2007 30 Arc-Sec. Sec. Terrain Data

WEKU BMLED19990407KA
Channel = 205C1
Max ERP = 50 kW
RCAMSL = 482 M
N. Lat. 37 52 45.0
W. Lng. 84 19 33.0
Protected
60 dBu

WOBO.A
Channel = 204B
Max ERP = 50 kW
RCAMSL = 408 M
N. Lat. 38 58 02.0
W. Lng. 84 05 48.4
Interfering
54 dBu

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
309.0	050.0000	0200.0	057.3	217.4	022.4915	0170.5	106.4	43.33
310.0	050.0000	0199.5	057.3	217.4	022.4901	0170.5	105.5	43.55
311.0	050.0000	0198.8	057.2	217.3	022.4245	0170.5	104.5	43.78
312.0	050.0000	0198.0	057.2	217.2	022.3398	0170.5	103.5	44.01
313.0	050.0000	0197.1	057.1	217.1	022.2443	0170.5	102.5	44.24
314.0	050.0000	0196.3	057.0	217.0	022.1403	0170.5	101.5	44.47
315.0	050.0000	0195.4	056.9	216.9	022.0251	0170.5	100.5	44.70
316.0	050.0000	0194.7	056.9	216.8	021.9023	0170.5	099.6	44.93
317.0	050.0000	0194.2	056.8	216.6	021.7793	0170.5	098.6	45.17
318.0	050.0000	0193.8	056.8	216.5	021.6526	0170.5	097.6	45.41
319.0	050.0000	0193.5	056.8	216.4	021.5167	0169.2	096.7	45.60
320.0	050.0000	0193.3	056.8	216.2	021.3760	0169.2	095.7	45.84
321.0	050.0000	0193.4	056.8	216.1	021.2371	0169.2	094.7	46.09
322.0	050.0000	0193.8	056.8	215.9	021.1003	0169.2	093.8	46.34
323.0	050.0000	0194.3	056.9	215.8	020.9556	0169.2	092.8	46.59
324.0	050.0000	0194.7	056.9	215.6	020.7917	0169.2	091.9	46.83
325.0	050.0000	0194.9	056.9	215.4	020.6059	0167.5	090.9	47.00
326.0	050.0000	0194.9	056.9	215.2	020.4028	0167.5	090.0	47.24
327.0	050.0000	0195.0	056.9	215.0	020.1893	0167.5	089.1	47.47
328.0	050.0000	0195.3	056.9	214.7	019.9677	0167.5	088.1	47.70
329.0	050.0000	0195.7	057.0	214.5	019.7413	0166.0	087.2	47.87
330.0	050.0000	0196.3	057.0	214.2	019.5141	0166.0	086.3	48.10
331.0	050.0000	0197.3	057.1	214.0	019.2862	0166.0	085.4	48.33
332.0	050.0000	0198.4	057.2	213.7	019.0543	0166.0	084.4	48.56
333.0	050.0000	0199.6	057.3	213.4	018.8106	0165.2	083.5	48.76
334.0	050.0000	0200.7	057.4	213.2	018.5478	0165.2	082.6	48.98
335.0	050.0000	0201.6	057.5	212.8	018.2643	0165.2	081.7	49.19
336.0	050.0000	0202.7	057.6	212.5	017.9728	0165.2	080.8	49.40
337.0	050.0000	0203.8	057.7	212.2	017.6694	0164.9	079.9	49.59
338.0	050.0000	0204.7	057.8	211.8	017.3433	0164.9	079.0	49.78
339.0	050.0000	0205.5	057.8	211.4	016.9966	0164.7	078.2	49.95
340.0	050.0000	0206.4	057.9	211.0	016.6420	0164.7	077.4	50.13
341.0	050.0000	0207.4	058.0	210.5	016.2751	0164.7	076.5	50.29
342.0	050.0000	0207.9	058.0	210.0	015.8776	0164.3	075.7	50.42

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
343.0	050.0000	0207.9	058.0	209.5	015.5315	0164.3	075.0	50.57
344.0	050.0000	0207.9	058.0	209.0	015.1806	0163.3	074.3	50.65
345.0	050.0000	0207.9	058.0	208.4	014.8214	0161.7	073.6	50.70
346.0	050.0000	0207.8	058.0	207.8	014.4507	0161.7	072.9	50.81
347.0	050.0000	0207.5	058.0	207.2	014.0668	0159.8	072.2	50.81
348.0	050.0000	0207.3	058.0	206.6	013.6778	0159.8	071.6	50.89
349.0	050.0000	0207.2	058.0	205.9	013.2883	0158.1	071.0	50.89
350.0	050.0000	0207.5	058.0	205.3	012.8995	0156.9	070.4	50.90
351.0	050.0000	0207.7	058.0	204.6	012.5040	0156.9	069.8	50.96
352.0	050.0000	0207.8	058.0	203.9	012.1012	0156.2	069.2	50.96
353.0	050.0000	0207.8	058.0	203.2	011.6921	0155.6	068.7	50.95
354.0	050.0000	0207.6	058.0	202.4	011.2764	0155.1	068.2	50.93
355.0	050.0000	0207.5	058.0	201.6	010.8606	0155.1	067.8	50.91
356.0	050.0000	0207.4	058.0	200.9	010.4446	0154.7	067.3	50.87
357.0	050.0000	0207.8	058.0	200.1	010.0356	0154.3	066.9	50.82
358.0	050.0000	0207.9	058.0	199.3	009.9904	0153.7	066.5	50.90
359.0	050.0000	0207.9	058.0	198.5	009.9904	0153.2	066.2	50.99
000.0	050.0000	0207.8	058.0	197.6	009.9904	0153.2	065.8	51.09
001.0	050.0000	0207.2	058.0	196.8	009.9904	0153.0	065.6	51.16
002.0	050.0000	0206.6	057.9	195.9	009.9904	0153.0	065.4	51.23
003.0	050.0000	0206.1	057.9	195.0	009.9904	0152.5	065.2	51.26
004.0	050.0000	0205.2	057.8	194.1	009.9904	0151.1	065.1	51.23
005.0	050.0000	0204.6	057.8	193.3	009.9904	0149.5	065.0	51.18
006.0	050.0000	0203.7	057.7	192.4	009.9904	0148.1	064.9	51.13
007.0	050.0000	0202.8	057.6	191.5	009.9904	0147.5	064.9	51.10
008.0	050.0000	0201.7	057.5	190.6	009.9904	0147.5	064.9	51.08
009.0	050.0000	0201.0	057.4	189.7	009.9904	0147.3	065.0	51.06
010.0	050.0000	0200.5	057.4	188.8	009.9904	0147.4	065.0	51.05
011.0	050.0000	0200.2	057.4	187.9	009.9904	0147.5	065.1	51.04
012.0	050.0000	0200.0	057.4	187.1	009.9904	0147.4	065.2	51.01
013.0	050.0000	0200.0	057.3	186.2	009.9904	0147.0	065.3	50.95
014.0	050.0000	0200.0	057.4	185.3	009.9904	0146.1	065.4	50.86
015.0	050.0000	0199.9	057.3	184.5	009.9904	0145.0	065.6	50.74
016.0	050.0000	0199.4	057.3	183.6	009.9904	0145.0	065.8	50.66
017.0	050.0000	0198.5	057.2	182.8	009.9904	0143.8	066.1	50.50
018.0	050.0000	0197.6	057.1	182.0	009.9904	0142.6	066.5	50.32
019.0	050.0000	0197.2	057.1	181.2	009.9904	0141.3	066.8	50.15
020.0	050.0000	0197.4	057.1	180.3	009.9904	0141.0	067.1	50.03
021.0	050.0000	0198.1	057.2	179.5	010.2373	0141.0	067.4	50.05
022.0	050.0000	0199.3	057.3	178.7	010.6701	0140.6	067.7	50.11
023.0	050.0000	0200.6	057.4	177.9	011.1092	0140.3	068.0	50.18
024.0	050.0000	0201.9	057.5	177.1	011.5508	0140.6	068.3	50.26
025.0	050.0000	0203.1	057.6	176.3	011.9923	0141.2	068.7	50.33
026.0	050.0000	0204.1	057.7	175.6	012.4297	0141.2	069.1	50.35
027.0	050.0000	0204.8	057.8	174.8	012.8602	0142.2	069.6	50.40
028.0	050.0000	0205.3	057.8	174.1	013.2845	0143.4	070.1	50.44
029.0	050.0000	0206.1	057.9	173.4	013.7095	0144.7	070.6	50.47
030.0	050.0000	0207.0	058.0	172.7	014.1370	0144.7	071.2	50.44
031.0	050.0000	0208.2	058.1	172.0	014.5649	0146.1	071.7	50.46
032.0	050.0000	0209.5	058.2	171.3	014.9929	0147.1	072.3	50.46
033.0	050.0000	0210.9	058.3	170.7	015.4188	0147.1	072.8	50.40

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
034.0	050.0000	0212.4	058.4	170.0	015.8406	0147.7	073.5	50.35
035.0	050.0000	0213.9	058.6	169.4	016.3651	0148.3	074.1	50.33
036.0	050.0000	0215.5	058.7	168.8	016.8890	0148.3	074.7	50.26
037.0	050.0000	0217.1	058.8	168.2	017.4035	0149.5	075.4	50.24
038.0	050.0000	0218.6	059.0	167.6	017.9042	0149.5	076.1	50.14
039.0	050.0000	0220.1	059.1	167.0	018.3957	0151.3	076.8	50.12
040.0	050.0000	0221.8	059.2	166.5	018.8877	0152.6	077.5	50.06
041.0	050.0000	0223.9	059.4	165.9	019.3862	0152.6	078.3	49.95
042.0	050.0000	0226.3	059.6	165.4	019.8873	0152.4	079.0	49.82
043.0	050.0000	0228.6	059.8	164.8	020.3724	0152.4	079.8	49.69
044.0	050.0000	0230.3	060.0	164.4	020.8178	0151.1	080.6	49.47
045.0	050.0000	0231.2	060.0	164.0	021.2055	0151.1	081.5	49.28
046.0	050.0000	0231.0	060.0	163.6	021.5310	0151.1	082.4	49.07
047.0	050.0000	0229.8	059.9	163.3	021.7883	0149.5	083.4	48.75
048.0	050.0000	0227.5	059.7	163.2	021.9717	0149.5	084.4	48.48
049.0	050.0000	0224.2	059.4	163.0	022.0925	0149.5	085.5	48.19
050.0	050.0000	0220.3	059.1	163.0	022.1647	0149.5	086.6	47.88
051.0	050.0000	0216.5	058.8	162.9	022.2223	0149.5	087.6	47.57
052.0	050.0000	0213.6	058.5	162.8	022.3101	0149.5	088.7	47.28
053.0	050.0000	0212.2	058.4	162.7	022.4607	0149.5	089.7	47.02
054.0	050.0000	0212.2	058.4	162.4	022.6713	0147.9	090.7	46.72
055.0	050.0000	0213.1	058.5	162.2	022.9082	0147.9	091.6	46.49
056.0	050.0000	0213.9	058.6	162.0	023.1337	0147.9	092.6	46.26
057.0	050.0000	0214.6	058.6	161.8	023.3372	0147.9	093.5	46.03
058.0	050.0000	0214.8	058.6	161.6	023.4977	0147.9	094.5	45.78
059.0	050.0000	0214.0	058.6	161.5	023.5983	0147.9	095.5	45.52
060.0	050.0000	0212.1	058.4	161.5	023.6324	0146.3	096.6	45.18
061.0	050.0000	0210.2	058.2	161.5	023.6533	0146.3	097.6	44.91
062.0	050.0000	0209.5	058.2	161.4	023.7176	0146.3	098.6	44.66
063.0	050.0000	0210.3	058.3	161.3	023.8536	0146.3	099.6	44.42
064.0	050.0000	0212.4	058.4	161.1	024.0371	0146.3	100.6	44.21
065.0	050.0000	0214.5	058.6	160.9	024.2073	0146.3	101.6	43.99
066.0	050.0000	0216.5	058.8	160.8	024.3603	0146.3	102.6	43.77
067.0	050.0000	0218.4	059.0	160.6	024.4985	0146.3	103.6	43.55
068.0	050.0000	0220.6	059.1	160.5	024.6354	0145.0	104.6	43.29
069.0	050.0000	0223.1	059.4	160.3	024.7758	0145.0	105.6	43.08

Call Letters: WEKU
File Number: BMLED19990407KA
Latitude: 37-52-45 N
Longitude: 084-19-33 W
ERP: 50.00 kW
Channel: 205
Frequency: 88.9 MHz
AMSL Height: 482.0 m
Elevation: 277.0 m
Horiz. Antenna Pattern: Omni
Vert. Elevation Pattern: No

Type of contour: FCC
Location Variability: 50.0 %
Time Variability: 10.0 %
# of Radials Calculated: 360
Field Strength: 54.00 dBuV/m

Primary Terrain: V-Soft 30 Second US Database
Secondary Terrain: NED 3 Second US Terrain

Bearing (deg)	Distance (km)	HAAT (m)
0.0	85.8	207.8
10.0	84.9	200.5
20.0	84.5	197.4
30.0	85.7	207.0
40.0	87.4	221.8
50.0	87.2	220.3
60.0	86.3	212.1
70.0	87.8	225.5
80.0	89.3	239.0
90.0	91.4	259.6
100.0	89.4	240.0
110.0	89.3	239.1
120.0	88.7	233.1
130.0	87.6	223.1
140.0	87.9	226.0
150.0	88.0	226.8
160.0	86.6	215.0
170.0	85.4	204.9
180.0	85.3	204.0
190.0	85.5	205.6
200.0	86.2	211.2
210.0	86.5	214.2
220.0	87.4	221.3
230.0	88.8	234.2
240.0	90.2	248.2
250.0	91.7	262.4
260.0	89.4	239.9
270.0	86.1	210.7
280.0	85.4	205.3
290.0	86.4	213.5

300.0	86.2	211.3
310.0	84.7	199.5
320.0	84.0	193.3
330.0	84.3	196.3
340.0	85.6	206.4
350.0	85.7	207.5

Average HAAT for radials shown: 219.0 m

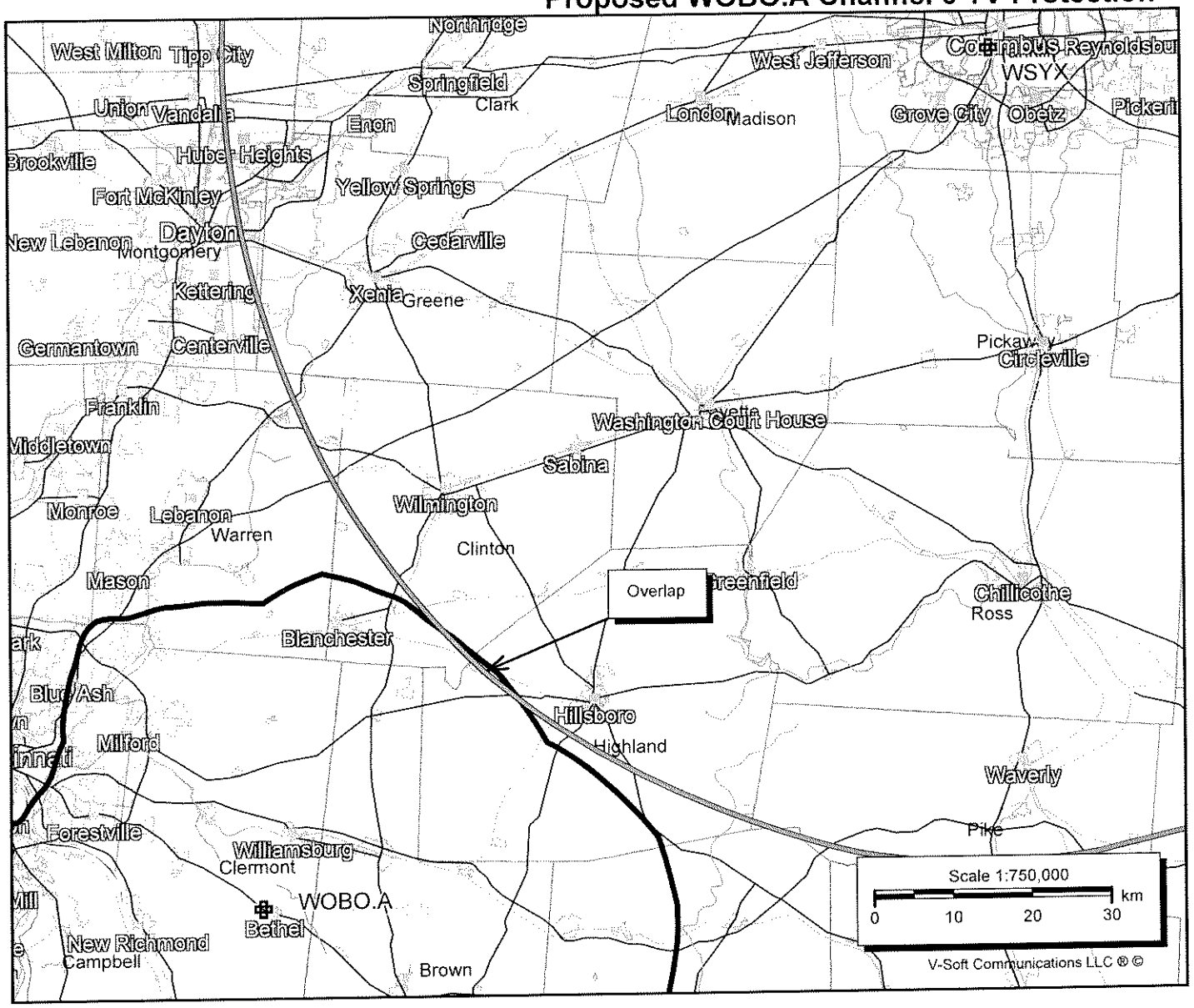
Attachment D

Proposed WOBO.A Channel 6 TV Protection

WOBO.A
BPED20070122AKE
Latitude: 38-58-02 N
Longitude: 084-05-48.40 W
ERP: 55.00 kW
Channel: 204
Frequency: 88.7 MHz
AMSL Height: 408.0 m
Elevation: 260.0 m
Horiz. Pattern: Directional
Vert. Pattern: No

WSYX
BLCT19931022KE
Latitude: 39-56-16 N
Longitude: 083-01-16 W
ERP: 100.00 kW
Channel: 06+
Frequency: 85.5 MHz
AMSL Height: 523.0 m
Elevation: 218.0 m
Horiz. Pattern: Directional
Vert. Pattern: Yes
Elec Tilt: 2.0
Mech Tilt: 1.0
Tilt Azi: 270.0

2/22/2007



Doug Vernier
Telecommunication Consultants