

5700 West Oaks Boulevard ♦ Rocklin ♦ California ♦ 95765

## South Webster, OH

## Channel Study

REFERENCE	CH# 235A - 94.9 MHz, Pwr= 2.1 kW, HAAT= 145.6 M, COR= 380 M	DISPLAY DATES
38 42 30.0 N.	Average Protected F(50-50)= 26.3 km	DATA 05-10-08
82 40 15.0 W.		SEARCH 05-12-08

CH CITY	CALL	TYPE ANT STATE		AZI. <--	DIST FILE #	LAT. LNG.			Pwr (kW) HAAT(M)	INT(km) COR(M)	PRO(km) LICENSEE	*IN* (Overlap	*OUT* in km)
235A South	WEKV Webster	CP	NCX OH	0.0 180.0	0.03 BPED20050720AAZ	38 82	42 40	31.0 15.0	1.600 180	9.2 415	43.1 Educational	91.5R Media	-91.5M Foundati
235A South	WEKV Webster	LIC	CX OH	323.1 143.1	7.30 BMLLED20050810AAG	38 82	45 43	39.0 17.0	3.000 100	9.2 326	43.1 Educational	91.5R Media	-84.2M Foundati
235B Fairfield	WSWD	LIC	CN OH	289.4 108.3	169.57 BLH19921014KE	39 84	12 31	01.0 22.0	50.000 150	139.8 370	67.0 Bonneville	2.07 Holding	1.09 Company
236B Elizabeth	WXIL«	LIC	CX WV	59.6 240.4	119.84 BLH20070913ABE	39 81	14 28	47.0 19.0	50.000 152	78.7 383	65.6 Burbach Of	112.5R De, LLC	7.3M
289C3 Greenup	WLGC-FM«	LIC	C KY	232.1 52.0	20.42 BLH20000110AAK	38 82	35 51	44.0 22.0	12.500 142	9.2 355	43.1 Greenup	11.5R County	8.9M Broadcastin
236A Flemingsburg	WFLE-FM«	LIC	NCN KY	247.6 67.0	85.66 BMLH19970506KCC	38 83	24 34	42.0 41.0	2.350 161	40.7 444	26.9 Dreamcatcher	71.5R Communication	14.2M
234C3 Paintsville	WKLV-FM«	LIC	CN KY	186.4 6.3	102.02 BLH19930719KDD	37 82	47 48	42.0 03.0	4.900 223	58.1 488	39.2 B & G	88.5R Broadcasting, Inc.	13.5M
234B Columbus	WSNY«	LIC	CN OH	347.8 167.6	143.53 BLH19850605KCO	39 83	58 01	16.0 40.0	22.000 230	80.2 475	67.7 Franklin	112.5R Communications, I	31.0M
232B1 Chillicothe	WKKJ«	LIC	ZCX OH	338.0 157.8	74.68 BLH20061101ADJ	39 82	19 59	52.0 49.0	19.000 108	3.7 343	41.8 Cc	47.5R Licenses, LLC	27.2M
238C Prestonsburg	WQHY«	LIC	CN KY	183.8 3.8	112.64 BLH19910521KCB	37 82	41 45	45.0 24.0	100.000 305	10.5 575	74.1 Wdoc, Inc.	94.5R	18.1M
238B Lancaster	WHOK-FM«	LIC	DCN OH	359.8 179.8	107.38 BLH19941223KCB	39 82	40 40	32.0 34.0	21.000 232	5.7 527	64.6 Wilks	68.5R License	38.9M Company-colu
233B1 Dunbar	WZJO«	LIC	CN WV	111.0 291.6	88.58 BMLH19980505KCB	38 81	25 43	11.0 24.0	9.600 160	3.9 395	45.8 Bristol	47.5R Broadcasting	41.1M Compa

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Terrain database is NGDC 30 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 = 1. 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.
^ = Station meets FCC minimum distance spacing for its class.
a = Power and antenna height 'Max classed' as per Sec 73.215 protection requirements

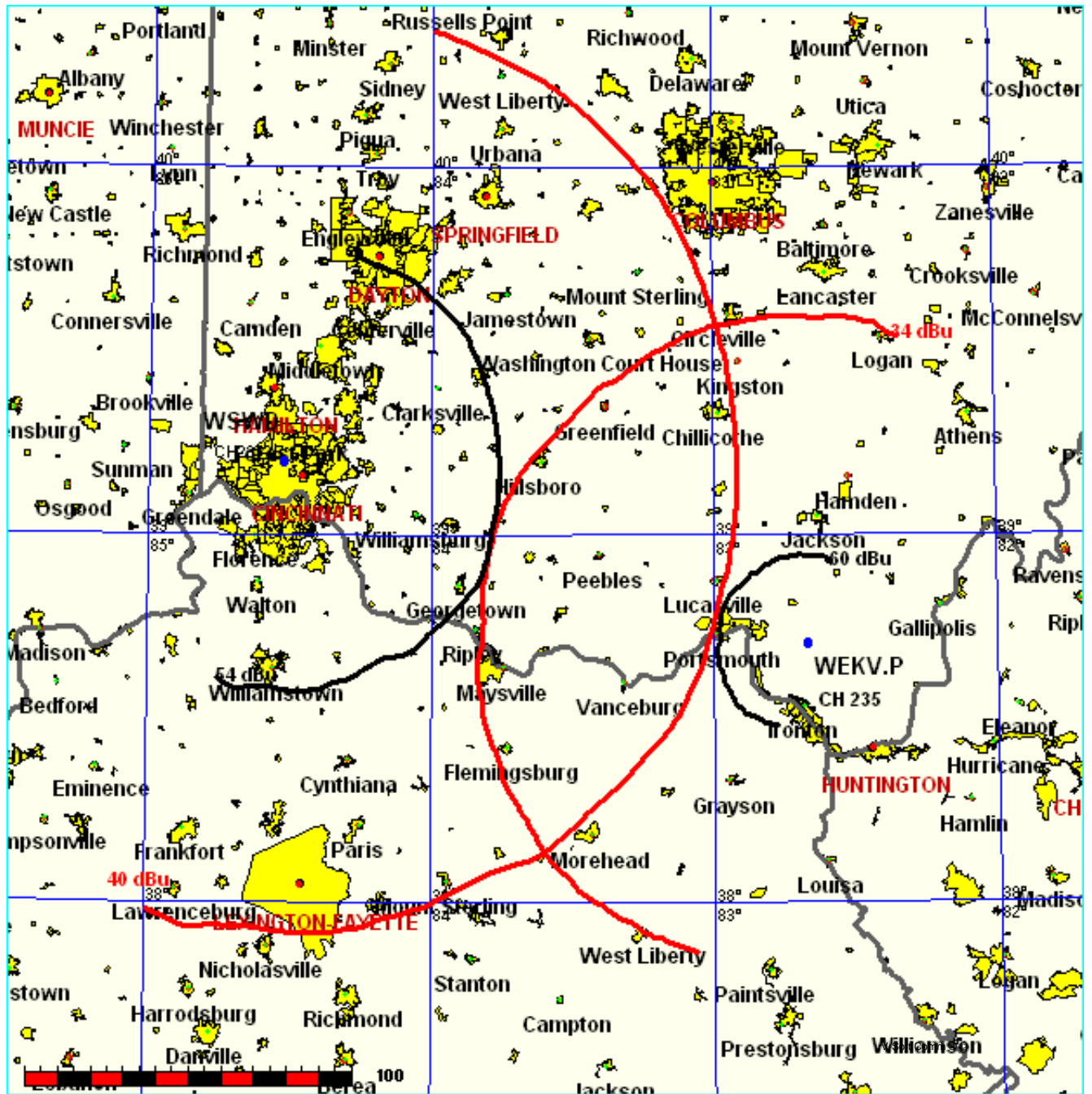
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Exhibit 30-A

FMCommander Single Allocation Study  
05-14-2008

WEKV.P CH 235 A  
2.1 kW 380 M COR  
Prot. = 60 dBu  
Intef. = 34 dBu

WSWD CH 235 B BLH19921014KE  
50.0 kW, 370 M COR  
Prot. = 54 dBu  
Intef. = 40 dBu



# Educational Media Foundation

Exhibit 30-A

5700 West Oaks Boulevard ♦ Rocklin ♦ California ♦ 95765

South Webster, OH

## WSWD vs. WEKV.P

05-14-2008

NGDC 30 SEC Terrain Data

FMOver Analysis

WEKV. P

Channel = 235A

Max ERP = 2.1 kW

RCAMSL = 380 M

N. Lat. 38 42 30.0

W. Lng. 82 40 15.0

Protected  
60 dBu

WSWD

BLH19921014KE

Channel = 235B

Max ERP = 50 kW

RCAMSL = 370 M

N. Lat. 39 12 01.0

W. Lng. 84 31 22.0

Interfering  
40 dBu

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
250.0	002.1000	0162.1	027.6	115.0	050.0000	0184.6	149.2	38.77
251.0	002.1000	0162.9	027.7	114.9	050.0000	0184.3	148.8	38.83
252.0	002.1000	0164.3	027.8	114.8	050.0000	0184.0	148.4	38.89
253.0	002.1000	0165.6	027.9	114.7	050.0000	0183.7	148.0	38.95
254.0	002.1000	0166.2	027.9	114.6	050.0000	0183.3	147.6	39.00
255.0	002.1000	0166.3	027.9	114.4	050.0000	0182.9	147.3	39.05
256.0	002.1000	0166.7	028.0	114.3	050.0000	0182.5	147.0	39.10
257.0	002.1000	0167.2	028.0	114.2	050.0000	0182.0	146.6	39.14
258.0	002.1000	0166.8	028.0	114.0	050.0000	0181.5	146.4	39.18
259.0	002.1000	0165.7	027.9	113.8	050.0000	0180.8	146.1	39.20
260.0	002.1000	0164.9	027.8	113.7	050.0000	0180.2	145.9	39.23
261.0	002.1000	0164.8	027.8	113.5	050.0000	0179.6	145.6	39.26
262.0	002.1000	0165.4	027.9	113.3	050.0000	0179.0	145.3	39.30
263.0	002.1000	0165.7	027.9	113.2	050.0000	0178.4	145.1	39.34
264.0	002.1000	0165.7	027.9	113.0	050.0000	0177.8	144.8	39.37
265.0	002.1000	0165.7	027.9	112.9	050.0000	0177.2	144.6	39.40
266.0	002.1000	0165.0	027.8	112.7	050.0000	0176.5	144.4	39.41
267.0	002.1000	0162.1	027.6	112.5	050.0000	0175.8	144.4	39.40
268.0	002.1000	0158.4	027.3	112.2	050.0000	0175.0	144.4	39.37
269.0	002.1000	0154.7	027.0	112.0	050.0000	0174.3	144.5	39.34
270.0	002.1000	0150.9	026.7	111.8	050.0000	0173.7	144.6	39.31
271.0	002.1000	0150.4	026.7	111.6	050.0000	0173.2	144.4	39.32
272.0	002.1000	0150.0	026.7	111.5	050.0000	0172.7	144.3	39.33
273.0	002.1000	0149.6	026.6	111.3	050.0000	0172.2	144.2	39.35
274.0	002.1000	0149.6	026.6	111.1	050.0000	0171.8	144.0	39.36
275.0	002.1000	0151.3	026.8	110.9	050.0000	0171.4	143.8	39.40
276.0	002.1000	0153.2	026.9	110.8	050.0000	0171.0	143.5	39.44
277.0	002.1000	0155.8	027.1	110.6	050.0000	0170.6	143.2	39.49
278.0	002.1000	0158.2	027.3	110.5	050.0000	0170.2	142.9	39.54
279.0	002.1000	0158.4	027.3	110.3	050.0000	0169.8	142.7	39.55
280.0	002.1000	0158.5	027.3	110.1	050.0000	0169.4	142.6	39.56
281.0	002.1000	0158.5	027.3	109.9	050.0000	0169.0	142.6	39.57
282.0	002.1000	0158.4	027.3	109.7	050.0000	0168.6	142.5	39.57
283.0	002.1000	0158.9	027.4	109.5	050.0000	0168.1	142.4	39.58
284.0	002.1000	0159.7	027.4	109.3	050.0000	0167.7	142.3	39.59
285.0	002.1000	0160.9	027.5	109.1	050.0000	0167.3	142.1	39.60
286.0	002.1000	0161.8	027.6	108.9	050.0000	0166.8	142.0	39.61
287.0	002.1000	0162.3	027.6	108.8	050.0000	0166.3	141.9	39.61
288.0	002.1000	0162.8	027.7	108.6	050.0000	0165.9	141.9	39.61
289.0	002.1000	0163.4	027.7	108.4	050.0000	0165.4	141.8	39.61
290.0	002.1000	0163.9	027.8	108.2	050.0000	0164.9	141.8	39.61
291.0	002.1000	0164.6	027.8	108.0	050.0000	0164.5	141.8	39.60
292.0	002.1000	0165.3	027.9	107.8	050.0000	0164.1	141.7	39.60
293.0	002.1000	0165.5	027.9	107.6	050.0000	0163.7	141.7	39.58

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Exhibit 30-A

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South Webster, OH

294.0	002.1000	0165.1	027.9	107.4	050.0000	0163.3	141.8	39.56
295.0	002.1000	0164.5	027.8	107.2	050.0000	0163.1	141.9	39.54
296.0	002.1000	0163.9	027.8	107.0	050.0000	0162.9	142.0	39.51
297.0	002.1000	0163.5	027.7	106.8	050.0000	0162.8	142.1	39.49
298.0	002.1000	0163.3	027.7	106.6	050.0000	0162.7	142.2	39.47
299.0	002.1000	0163.6	027.7	106.4	050.0000	0162.6	142.3	39.45
300.0	002.1000	0163.9	027.8	106.2	050.0000	0162.6	142.4	39.44
301.0	002.1000	0163.9	027.8	106.0	050.0000	0162.6	142.5	39.41
302.0	002.1000	0163.5	027.7	105.9	050.0000	0162.5	142.6	39.39
303.0	002.1000	0162.3	027.6	105.7	050.0000	0162.5	142.8	39.34
304.0	002.1000	0160.3	027.5	105.5	050.0000	0162.5	143.1	39.29
305.0	002.1000	0157.9	027.3	105.3	050.0000	0162.6	143.5	39.23
306.0	002.1000	0155.5	027.1	105.2	050.0000	0162.6	143.8	39.17
307.0	002.1000	0153.4	026.9	105.0	050.0000	0162.6	144.1	39.11
308.0	002.1000	0151.2	026.8	104.9	050.0000	0162.7	144.4	39.05
309.0	002.1000	0149.3	026.6	104.7	050.0000	0162.7	144.8	38.99
310.0	002.1000	0147.9	026.5	104.6	050.0000	0162.8	145.1	38.94

## WEKV.P vs. WSWD

05-14-2008 NGDC 30 SEC Terrain Data

WSWD BLH19921014KE  
 Channel = 235B  
 Max ERP = 50 kW  
 RCAMSL = 370 M  
 N. Lat. 39 12 01.0  
 W. Lng. 84 31 22.0  
 Protected  
 54 dBu

WEKV. P  
 Channel = 235A  
 Max ERP = 2.1 kW  
 RCAMSL = 380 M  
 N. Lat. 38 42 30.0  
 W. Lng. 82 40 15.0  
 Interfering  
 34 dBu

Azi muth (degrees)	ERP (kW)	HAAT (m)	Di st (km)	Azi muth (degrees)	ERP (kW)	HAAT (m)	Di st (km)	Actual (dBu)
095.0	050.0000	0158.5	066.2	297.7	002.1000	0163.3	106.2	32.86
096.0	050.0000	0159.1	066.2	297.1	002.1000	0163.4	105.7	32.97
097.0	050.0000	0159.5	066.3	296.5	002.1000	0163.7	105.3	33.08
098.0	050.0000	0159.9	066.3	295.9	002.1000	0164.0	104.9	33.18
099.0	050.0000	0160.5	066.4	295.3	002.1000	0164.3	104.5	33.29
100.0	050.0000	0161.4	066.5	294.7	002.1000	0164.7	104.1	33.39
101.0	050.0000	0162.1	066.6	294.1	002.1000	0165.1	103.8	33.49
102.0	050.0000	0162.6	066.7	293.5	002.1000	0165.4	103.5	33.57
103.0	050.0000	0163.0	066.7	292.8	002.1000	0165.5	103.2	33.63
104.0	050.0000	0163.0	066.7	292.2	002.1000	0165.4	103.1	33.66
105.0	050.0000	0162.6	066.7	291.6	002.1000	0165.0	103.0	33.67
106.0	050.0000	0162.5	066.7	290.9	002.1000	0164.5	102.9	33.67
107.0	050.0000	0162.9	066.7	290.3	002.1000	0164.1	102.8	33.68
108.0	050.0000	0164.6	066.9	289.6	002.1000	0163.7	102.6	33.73
109.0	050.0000	0166.9	067.2	289.0	002.1000	0163.4	102.3	33.78
110.0	050.0000	0169.2	067.4	288.3	002.1000	0163.0	102.1	33.82
111.0	050.0000	0171.5	067.7	287.6	002.1000	0162.6	102.0	33.85
112.0	050.0000	0174.3	068.0	287.0	002.1000	0162.2	101.8	33.88
113.0	050.0000	0177.7	068.3	286.3	002.1000	0161.9	101.6	33.93
114.0	050.0000	0181.4	068.7	285.6	002.1000	0161.4	101.4	33.96
115.0	050.0000	0184.5	069.0	284.9	002.1000	0160.8	101.3	33.95
116.0	050.0000	0186.3	069.2	284.2	002.1000	0159.9	101.4	33.90
117.0	050.0000	0187.2	069.3	283.5	002.1000	0159.3	101.6	33.83
118.0	050.0000	0188.2	069.4	282.8	002.1000	0158.8	101.8	33.75
119.0	050.0000	0189.3	069.5	282.2	002.1000	0158.4	102.1	33.67
120.0	050.0000	0190.8	069.6	281.5	002.1000	0158.4	102.3	33.61
121.0	050.0000	0192.2	069.8	280.8	002.1000	0158.5	102.6	33.54
122.0	050.0000	0193.4	069.9	280.2	002.1000	0158.6	103.0	33.45
123.0	050.0000	0194.0	069.9	279.5	002.1000	0158.4	103.4	33.34
124.0	050.0000	0193.6	069.9	278.9	002.1000	0158.4	104.0	33.20
125.0	050.0000	0192.5	069.8	278.4	002.1000	0158.5	104.7	33.05