

Channel Study

REFERENCE		CH# 206A - 89.1 MHz, Pwr= 1.9 kW, HAAT= 34.4 M, COR= 271 M						DISPLAY DATES			
42 18 54.0 N.		Average Protected F(50-50)= 12.6 km						DATA 10-04-07			
88 06 25.0 W.								SEARCH 10-09-07			
CH CITY	CALL	TYPE STATE	ANT STATE	AZI. <--	DIST FILE #	LAT. LNG.	Pwr(kW) HAAT(M)	INT(km) COR(M)	PRO(km) LICENSEE	*IN* (Overlap in km)	*OUT*
06Z1C WITI Milwaukee		LI	N	11.2	87.85	43 05 26.0	100.000		104.7	114.8R	-27.0M
		WI		191.3	BLCT19990129KT	87 53 50.0	305	511	Fox Television Stations, I		
205A WMXM Lake Forest		APP	CX	107.5	24.05	42 14 59.0	0.295	10.6	7.4	2.22	0.51
		IL		287.7	BPED20070906AEP	87 49 44.0	32	236	Lake Forest College		
205A WMXM Lake Forest		LIC	DHN	107.5	24.02	42 15 00.0	0.300	10.5	7.3	2.26	0.52
		IL		287.6	BLED19800904AA	87 49 45.0	34	236	Lake Forest College		
206A WONC Naperville		LIC	CN	186.9	60.30	41 46 34.0	1.500	49.8	13.4	1.34	16.11
		IL		6.9	BLED19940809KC	88 11 41.0	50	264	North Central College		
206A WBSD Burlington		LIC	CX	341.2	41.75	42 40 14.0	0.210	22.7	6.8	9.33	2.21
		WI		161.1	BLED20020830ADH	88 16 18.0	28	267	Burlington Area School Dis		
203A AP4806 Zion		APP	VDX	39.3	20.03	42 27 15.0	0.450	1.5	9.9	5.17	8.49
		IL		219.4	BNPED20000314ABT	87 57 08.0	56	274	Pensacola Christian Colleg		
205A WEPS Elgin		LIC	CN	203.7	33.61	42 02 17.0	0.740	13.2	9.4	9.81	9.36
		IL		23.6	BLED19861120KD	88 16 15.0	10	259	Board Of Education School		
207B1 WNUR-FM Evanston		LIC	CN	129.2	45.97	42 03 12.0	7.200	24.6	16.6	11.10	15.10
		IL		309.5	BLED1609	87 40 33.0	30	218	Northwestern University		
203A WGBK Glenview		LIC	DC	135.0	32.08	42 06 39.0	0.185	0.3	3.9	21.42	26.59
		IL		315.2	BLED19990913AAD	87 49 56.0	32	226	Glenbrook High School Dist		
203A AP5663 Glenview		APP	DCX	133.1	32.03	42 07 05.0	0.100	0.3	3.9	21.49	26.54
		IL		313.3	BNPED20041101AHU	87 49 25.0	22	215	R B Schools		
206B1 WNIE Freeport		LIC	DCN	270.4	122.59	42 18 45.0	6.000	87.5	30.0	22.14	43.10
		IL		89.4	BLED19990528KA	89 35 38.0	110	368	Northern Illinois Universi		
205B1 WYMS Milwaukee		LIC	CX	11.2	87.85	43 05 26.0	1.450	50.2	33.4	25.37	36.58
		WI		191.3	BLED20060630AGJ	87 53 50.0	289	484	Milwaukee Board Of School		
208B WNIJ DeKalb		LIC	DCN	246.0	81.11	42 00 55.0	50.000	5.7	50.2	62.69	29.30
		IL		65.4	BLED19891011KA	89 00 07.0	128	380	Northern Illinois Universi		
205A WRRG River Grove		LIC	DCN	153.3	49.68	41 54 56.0	0.100	7.8	5.5	32.33	30.81
		IL		333.4	BLED19860926KC	87 50 12.0	39	234	Triton College		
209B WUWM Milwaukee		LIC	CX	11.2	87.85	43 05 26.0	13.500	5.4	52.0	70.15	34.23
		WI		191.3	BLED20060419ACI	87 53 50.0	289	484	Board Of Regents, Universi		
204A WRSE Elmhurst		LIC	DCX	164.0	48.40	41 53 46.0	0.100	0.7	5.6	38.50	41.18
		IL		344.1	BMLER20030715ACO	87 56 45.0	29	236	Bd. Of Trustees, Elmhurst		
204A WRSE Elmhurst		CP	DCX	164.0	48.40	41 53 46.0	0.320	0.7	5.5	38.52	41.27
		IL		344.1	BPED20050614ABF	87 56 45.0	29	236	Bd. Of Trustees, Elmhurst		
204A WLUW Chicago		LIC	CN	133.3	50.79	42 00 04.0	0.100	0.7	8.5	39.89	40.73
		IL		313.6	BLED19840904CR	87 39 36.0	70	253	Loyola University Of Chica		
205A WARG Summit		LIC	DEN	157.3	64.82	41 46 36.0	0.500	6.0	4.2	49.62	47.70
		IL		337.5	BLED19851106KC	87 48 17.0	25	218	Community High School Dist		
206A WWLO Lowell		LIC	CX	150.3	126.58	41 19 24.0	2.400	66.5	19.5	50.16	72.94
		IN		330.8	BLED20060420AAX	87 21 22.0	77	288	American Family Associatio		
207A WKKC Chicago		CP	DEX	147.1	70.72	41 46 48.0	0.280	6.3	4.4	54.19	51.99
		IL		327.4	BPED20070308AAM	87 38 38.0	34	216	Board Of Trustees Communit		
207A WKKC Chicago		LIC	DEN	146.8	72.20	41 46 15.0	0.250	6.0	4.3	55.88	53.60
		IL		327.1	BLED19900521KB	87 37 48.0	35	215	Board Of Trustees Communit		

Terrain database is NGDC 30 SEC

ERP and HAAT on direct-line with reference station.

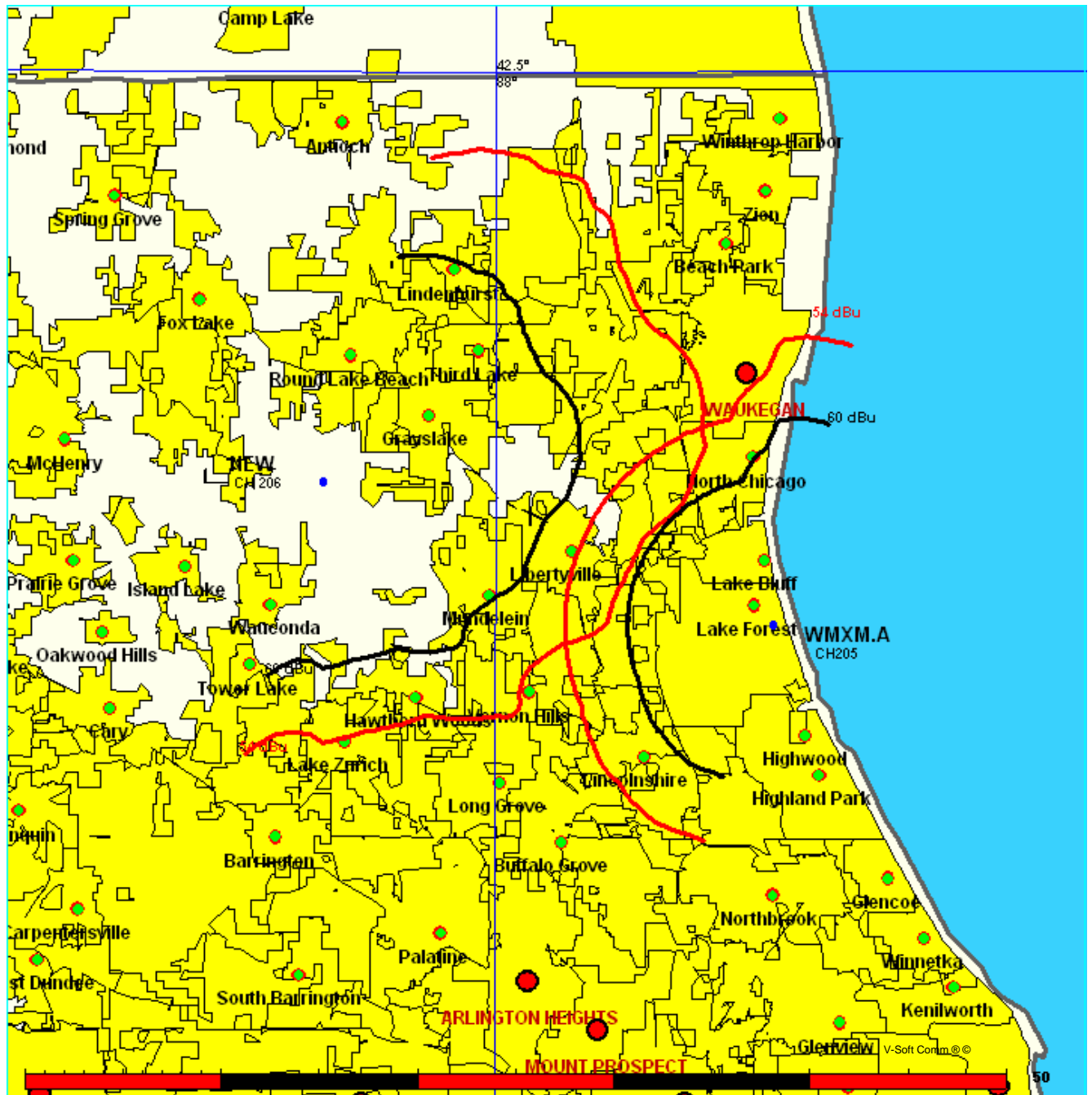
Ant Column: (D= DA Standard, Z= DA 73.215, N= Not DA 73.215, _= Omni), Polarization (C,H,V,E), Beamtilt(Y,N,X)

Exhibit 16-A

FMCommander Single Allocation Study
10-09-2007

NEW CH 206 A
1.9 kW 271 M COR DA
Prot. = 60 dBu
Intef. = 54 dBu

WMXM-A CH 205 A BPED20070906AEP
0.295 kW, 236 M COR
Prot. = 60 dBu
Intef. = 54 dBu



Educational Media Foundation

Exhibit 16-A

5700 West Oaks Boulevard ♦ Rocklin ♦ California ♦ 95765

Round Lake Beach, IL

NEW.P vs. WMXM.A

10-09-2007 NGDC 30 SEC Terrain Data

WMXM-A BPED20070906AEP
Channel = 205A
Max ERP = 0.295 kW
RCAMSL = 236 M
N. Lat. 42 14 59.0
W. Lng. 87 49 44.0
Protected
60 dBu

NEW
Channel = 206A
Max ERP = 1.9 kW
RCAMSL = 271 M
N. Lat. 42 18 54.0
W. Lng. 88 06 25.0
Interfering
54 dBu

Azi muth (degrees)	ERP (kW)	HAAT (m)	Di st (km)	Azi muth (degrees)	ERP (kW)	HAAT (m)	Di st (km)	Actual (dBu)
270.0	000.2950	0023.7	007.4	115.0	000.6761	0045.3	017.2	53.11
271.0	000.2950	0023.6	007.4	114.6	000.6750	0045.3	017.1	53.14
272.0	000.2950	0023.6	007.4	114.2	000.6738	0045.2	017.1	53.16
273.0	000.2950	0023.6	007.4	113.8	000.6726	0045.1	017.0	53.18
274.0	000.2950	0023.6	007.4	113.4	000.6714	0045.1	017.0	53.20
275.0	000.2950	0023.7	007.4	113.0	000.6702	0045.1	016.9	53.23
276.0	000.2950	0023.6	007.4	112.6	000.6689	0045.1	016.9	53.26
277.0	000.2950	0023.6	007.4	112.2	000.6677	0045.2	016.8	53.29
278.0	000.2950	0023.8	007.4	111.7	000.6665	0045.2	016.8	53.32
279.0	000.2950	0024.3	007.4	111.3	000.6652	0045.3	016.8	53.35
280.0	000.2950	0024.6	007.4	110.9	000.6639	0045.4	016.8	53.38
281.0	000.2950	0025.0	007.4	110.4	000.6627	0045.4	016.7	53.40
282.0	000.2950	0025.1	007.4	110.0	000.6614	0045.4	016.7	53.42
283.0	000.2950	0025.2	007.4	109.6	000.6633	0045.5	016.7	53.45
284.0	000.2950	0025.3	007.4	109.1	000.6652	0045.5	016.7	53.48
285.0	000.2950	0025.2	007.4	108.7	000.6670	0045.5	016.7	53.50
286.0	000.2950	0025.1	007.4	108.2	000.6689	0045.5	016.7	53.53
287.0	000.2950	0025.0	007.4	107.8	000.6709	0045.6	016.7	53.55
288.0	000.2950	0024.9	007.4	107.3	000.6728	0045.6	016.7	53.57
289.0	000.2950	0025.0	007.4	106.9	000.6747	0045.7	016.7	53.59
290.0	000.2950	0025.0	007.4	106.5	000.6766	0045.7	016.7	53.61
291.0	000.2950	0025.1	007.4	106.0	000.6785	0045.8	016.7	53.63
292.0	000.2950	0025.4	007.4	105.6	000.6804	0045.8	016.7	53.64
293.0	000.2950	0026.0	007.4	105.1	000.6823	0045.8	016.7	53.64
294.0	000.2950	0026.7	007.4	104.7	000.6842	0045.8	016.7	53.63
295.0	000.2950	0027.3	007.4	104.3	000.6861	0045.8	016.7	53.62
296.0	000.2950	0027.7	007.4	103.8	000.6880	0045.9	016.8	53.62
297.0	000.2950	0027.9	007.4	103.4	000.6899	0045.9	016.8	53.62
298.0	000.2950	0028.0	007.4	103.0	000.6917	0046.0	016.8	53.62
299.0	000.2950	0028.0	007.4	102.5	000.6936	0046.0	016.9	53.61
300.0	000.2950	0027.9	007.4	102.1	000.6954	0046.1	016.9	53.61
301.0	000.2950	0027.6	007.4	101.7	000.6972	0046.2	016.9	53.60
302.0	000.2950	0027.3	007.4	101.3	000.6990	0046.3	017.0	53.59
303.0	000.2950	0027.1	007.4	100.9	000.7008	0046.3	017.0	53.57
304.0	000.2950	0027.1	007.4	100.5	000.7025	0046.4	017.1	53.55
305.0	000.2950	0027.1	007.4	100.1	000.7043	0046.5	017.1	53.53
306.0	000.2950	0026.8	007.4	99.7	000.7146	0046.6	017.2	53.57
307.0	000.2950	0026.4	007.4	99.3	000.7274	0046.7	017.3	53.61
308.0	000.2950	0026.3	007.4	98.9	000.7400	0046.7	017.3	53.65
309.0	000.2950	0026.3	007.4	98.6	000.7529	0046.8	017.4	53.68
310.0	000.2950	0026.3	007.4	98.2	000.7656	0046.8	017.4	53.71
311.0	000.2950	0026.0	007.4	97.8	000.7784	0046.9	017.5	53.74
312.0	000.2950	0025.6	007.4	97.5	000.7911	0047.0	017.6	53.76
313.0	000.2950	0025.2	007.4	97.1	000.8037	0047.1	017.7	53.79

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Exhibit 16-A

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Round Lake Beach, IL

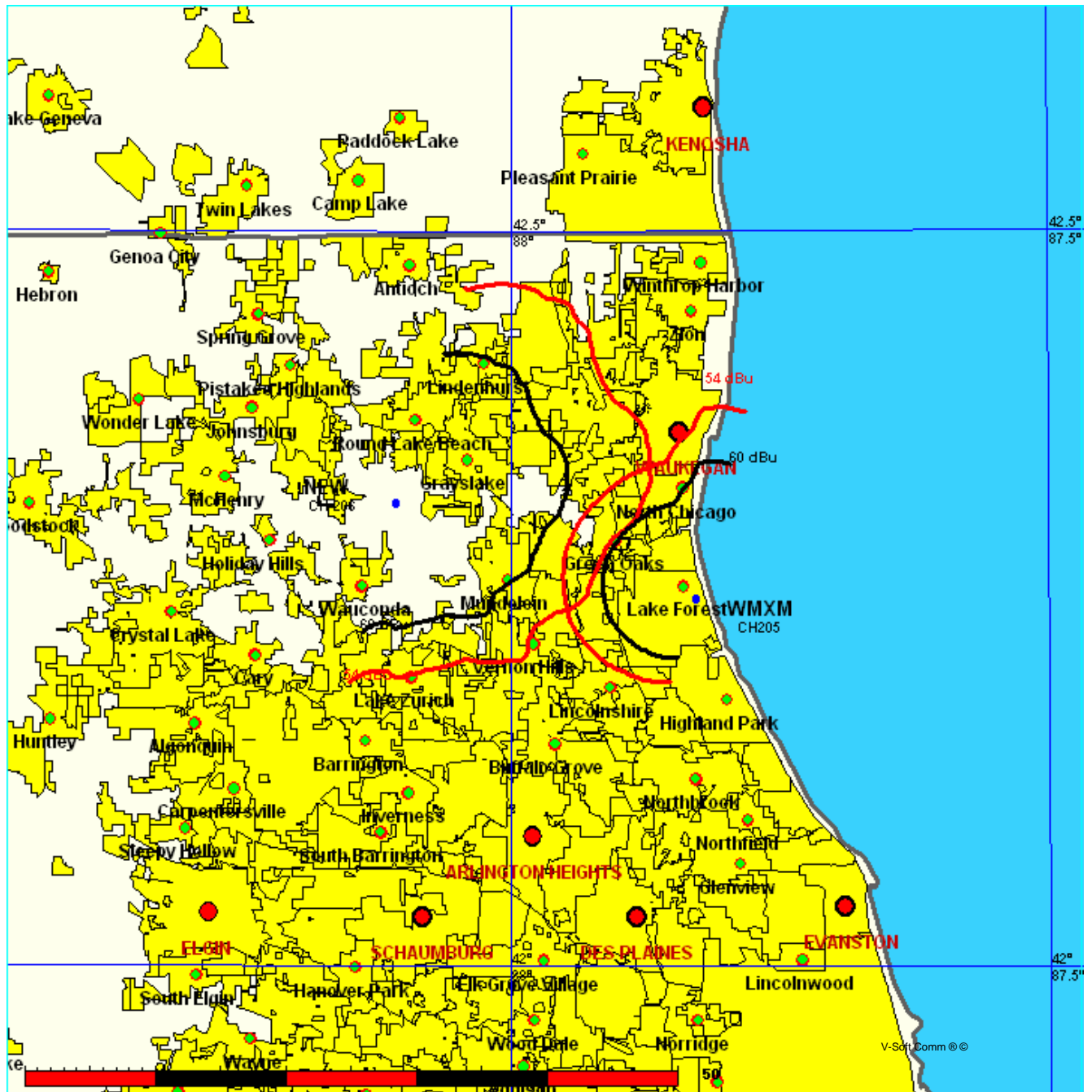
314.0	000.2950	0024.9	007.4	096.8	000.8163	0047.1	017.7	53.80
315.0	000.2950	0024.6	007.4	096.5	000.8288	0047.2	017.8	53.81
316.0	000.2950	0024.3	007.4	096.2	000.8412	0047.3	017.9	53.82
317.0	000.2950	0023.8	007.4	095.8	000.8535	0047.4	018.0	53.83
318.0	000.2950	0023.3	007.4	095.5	000.8656	0047.5	018.1	53.84
319.0	000.2950	0022.8	007.4	095.2	000.8777	0047.6	018.2	53.84
320.0	000.2950	0022.5	007.4	094.9	000.8895	0047.7	018.2	53.85
321.0	000.2950	0022.3	007.4	094.7	000.9012	0047.7	018.3	53.84
322.0	000.2950	0022.1	007.4	094.4	000.9128	0047.8	018.4	53.83
323.0	000.2950	0022.0	007.4	094.1	000.9240	0047.8	018.5	53.80
324.0	000.2950	0021.8	007.4	093.9	000.9352	0047.8	018.6	53.77
325.0	000.2950	0021.8	007.4	093.6	000.9462	0047.7	018.7	53.73
326.0	000.2950	0022.0	007.4	093.4	000.9568	0047.7	018.8	53.67
327.0	000.2950	0022.4	007.4	093.1	000.9672	0047.6	018.9	53.62
328.0	000.2950	0022.7	007.4	092.9	000.9774	0047.5	019.0	53.56
329.0	000.2950	0023.0	007.4	092.7	000.9874	0047.4	019.1	53.50
330.0	000.2950	0023.4	007.4	092.5	000.9971	0047.3	019.2	53.43
331.0	000.2950	0023.7	007.4	092.3	001.0065	0047.2	019.4	53.35
332.0	000.2950	0023.9	007.4	092.1	001.0155	0047.1	019.5	53.28
333.0	000.2950	0023.8	007.4	091.9	001.0244	0047.0	019.6	53.20
334.0	000.2950	0023.2	007.4	091.7	001.0329	0046.9	019.7	53.13
335.0	000.2950	0022.6	007.4	091.5	001.0412	0046.8	019.8	53.05

Exhibit 16-B

FMCommander Single Allocation Study
10-09-2007

NEW CH 206 A
1.9 kW 271 M COR DA
Prot. = 60 dBu
Intef. = 54 dBu

WMXM CH 205 A BLED19800904AA
0.3 kW, 236 M COR DA
Prot. = 60 dBu
Intef. = 54 dBu



Educational Media Foundation

Exhibit 16-B

5700 West Oaks Boulevard ♦ Rocklin ♦ California ♦ 95765

Round Lake Beach, IL

NEW.P vs. WMXM

10-09-2007 NGDC 30 SEC Terrain Data

WMXM BLED19800904AA
Channel = 205A
Max ERP = 0.3 kW
RCAMSL = 236 M
N. Lat. 42 15 00.0
W. Lng. 87 49 45.0
Protected
60 dBu

NEW
Channel = 206A
Max ERP = 1.9 kW
RCAMSL = 271 M
N. Lat. 42 18 54.0
W. Lng. 88 06 25.0
Interfering
54 dBu

Azi muth (degrees)	ERP (kW)	HAAT (m)	Di st (km)	Azi muth (degrees)	ERP (kW)	HAAT (m)	Di st (km)	Actual (dBu)
275.0	000.2484	0023.6	007.1	112.6	000.6690	0045.1	017.2	53.00
276.0	000.2517	0023.6	007.1	112.2	000.6679	0045.2	017.1	53.05
277.0	000.2550	0023.5	007.1	111.9	000.6668	0045.2	017.1	53.10
278.0	000.2584	0023.8	007.1	111.5	000.6657	0045.3	017.0	53.15
279.0	000.2617	0024.2	007.2	111.1	000.6645	0045.3	017.0	53.20
280.0	000.2651	0024.6	007.2	110.7	000.6634	0045.4	016.9	53.24
281.0	000.2679	0025.0	007.2	110.3	000.6622	0045.4	016.9	53.28
282.0	000.2708	0025.1	007.2	109.9	000.6620	0045.4	016.8	53.32
283.0	000.2736	0025.1	007.3	109.4	000.6638	0045.5	016.8	53.36
284.0	000.2765	0025.2	007.3	109.0	000.6656	0045.5	016.8	53.41
285.0	000.2794	0025.1	007.3	108.6	000.6675	0045.5	016.7	53.45
286.0	000.2823	0025.0	007.3	108.1	000.6693	0045.6	016.7	53.49
287.0	000.2852	0024.8	007.3	107.7	000.6712	0045.6	016.7	53.53
288.0	000.2881	0024.8	007.3	107.3	000.6731	0045.6	016.7	53.56
289.0	000.2911	0024.9	007.4	106.8	000.6750	0045.7	016.7	53.60
290.0	000.2940	0024.9	007.4	106.4	000.6769	0045.7	016.6	53.63
291.0	000.2946	0025.0	007.4	105.9	000.6788	0045.8	016.7	53.65
292.0	000.2952	0025.3	007.4	105.5	000.6808	0045.8	016.7	53.67
293.0	000.2958	0025.9	007.4	105.0	000.6827	0045.8	016.7	53.67
294.0	000.2964	0026.6	007.4	104.6	000.6846	0045.8	016.7	53.67
295.0	000.2970	0027.3	007.4	104.2	000.6865	0045.8	016.7	53.66
296.0	000.2976	0027.6	007.4	103.7	000.6884	0045.9	016.7	53.66
297.0	000.2982	0027.8	007.4	103.3	000.6903	0045.9	016.8	53.67
298.0	000.2988	0027.9	007.4	102.9	000.6922	0046.0	016.8	53.67
299.0	000.2994	0027.9	007.4	102.4	000.6941	0046.1	016.8	53.67
300.0	000.3000	0027.8	007.4	102.0	000.6959	0046.1	016.8	53.67
301.0	000.2997	0027.5	007.4	101.6	000.6977	0046.2	016.9	53.65
302.0	000.2994	0027.2	007.4	101.2	000.6995	0046.3	016.9	53.64
303.0	000.2991	0027.0	007.4	100.8	000.7013	0046.3	017.0	53.62
304.0	000.2988	0027.0	007.4	100.4	000.7031	0046.4	017.0	53.60
305.0	000.2985	0027.0	007.4	100.0	000.7056	0046.5	017.1	53.59
306.0	000.2982	0026.7	007.4	099.6	000.7185	0046.6	017.2	53.64
307.0	000.2979	0026.3	007.4	099.2	000.7312	0046.7	017.2	53.68
308.0	000.2976	0026.2	007.4	098.8	000.7440	0046.7	017.3	53.71
309.0	000.2973	0026.2	007.4	098.5	000.7568	0046.8	017.3	53.74
310.0	000.2970	0026.2	007.4	098.1	000.7695	0046.9	017.4	53.77
311.0	000.2961	0025.9	007.4	097.7	000.7820	0046.9	017.5	53.79
312.0	000.2952	0025.5	007.4	097.4	000.7945	0047.0	017.6	53.81
313.0	000.2943	0025.1	007.4	097.1	000.8067	0047.1	017.6	53.83
314.0	000.2934	0024.8	007.4	096.7	000.8190	0047.2	017.7	53.84
315.0	000.2925	0024.5	007.4	096.4	000.8311	0047.2	017.8	53.84
316.0	000.2917	0024.2	007.4	096.1	000.8430	0047.3	017.9	53.84
317.0	000.2908	0023.7	007.4	095.8	000.8548	0047.4	018.0	53.84
318.0	000.2899	0023.2	007.4	095.5	000.8666	0047.5	018.1	53.85

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Exhibit 16-B

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Round Lake Beach, IL

319.0	000.2890	0022.8	007.4	095.2	000.8780	0047.6	018.2	53.85
320.0	000.2881	0022.4	007.3	094.9	000.8893	0047.7	018.3	53.84
321.0	000.2893	0022.2	007.4	094.6	000.9017	0047.7	018.3	53.84
322.0	000.2905	0022.1	007.4	094.4	000.9139	0047.8	018.4	53.84
323.0	000.2917	0021.9	007.4	094.1	000.9258	0047.8	018.5	53.82
324.0	000.2928	0021.7	007.4	093.8	000.9378	0047.8	018.6	53.79
325.0	000.2940	0021.8	007.4	093.5	000.9495	0047.7	018.7	53.76
326.0	000.2952	0022.0	007.4	093.3	000.9610	0047.6	018.8	53.71
327.0	000.2964	0022.3	007.4	093.0	000.9721	0047.5	018.9	53.66
328.0	000.2976	0022.7	007.4	092.8	000.9833	0047.4	019.0	53.60
329.0	000.2988	0023.0	007.4	092.5	000.9942	0047.3	019.1	53.54
330.0	000.3000	0023.4	007.4	092.3	001.0048	0047.2	019.2	53.48
331.0	000.2997	0023.7	007.4	092.1	001.0139	0047.1	019.3	53.40
332.0	000.2994	0023.9	007.4	091.9	001.0229	0047.0	019.4	53.32
333.0	000.2991	0023.8	007.4	091.7	001.0317	0046.9	019.5	53.25
334.0	000.2988	0023.2	007.4	091.5	001.0400	0046.8	019.7	53.17
335.0	000.2985	0022.6	007.4	091.4	001.0481	0046.7	019.8	53.09

Exhibit 16-C

FMCommander Single Allocation Study
10-09-2007

NEW CH 206 A
1.9 kW 271 M COR DA
Prot. = 60 dBu
Intef. = 40 dBu

WONC CH 206 A BLED19940809KC
1.5 kW, 264 M COR
Prot. = 60 dBu
Intef. = 40 dBu

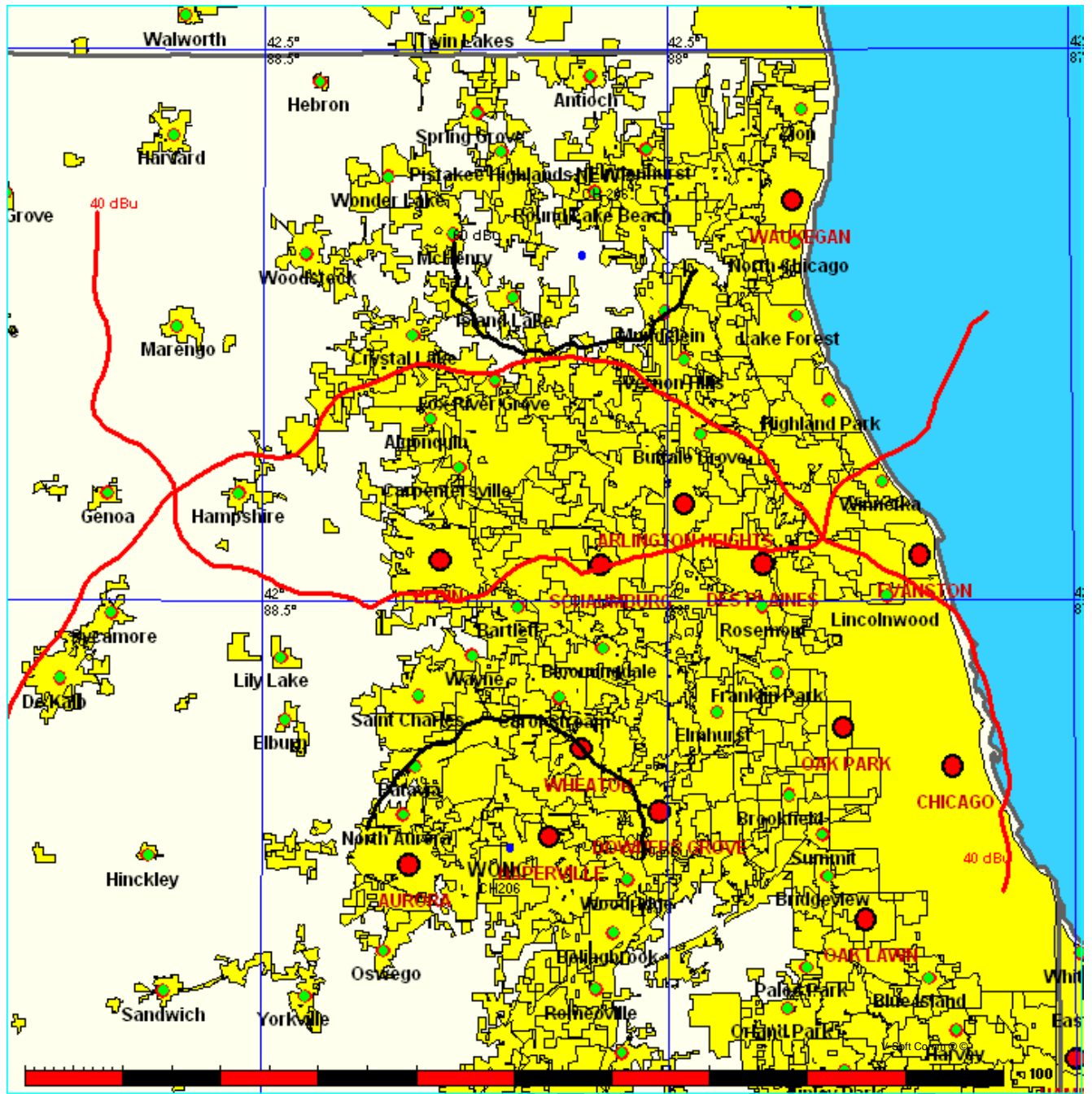


Exhibit 16-D

FMCommander Single Allocation Study
10-09-2007

NEW CH 206 A
1.9 kW 271 M COR DA
Prot. = 60 dBu
Intef. = 40 dBu

WBSD CH 206 A BLED20020830ADH
0.21 kW, 267 M COR
Prot. = 60 dBu
Intef. = 40 dBu

