

Educational Media Foundation

Exhibit 16

5700 West Oaks Boulevard ♦ Rocklin ♦ California ♦ 95765

Rochester Hills, MI

Channel Study

REFERENCE		CH# 212A - 90.3 MHz, Pwr= 1.2 kW, HAAT= 53.0 M, COR= 296 M							DISPLAY DATES		
42 40 43.0 N.		Average Protected F(50-50)= 13.9 km							DATA 09-26-07		
83 07 28.0 W.									SEARCH 10-07-07		
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	*OUT* in km)
212A Sarnia	CBEGFM	OPE ON	CN 248.5	68.0	69.17	42 54 31.0 82 20 19.0	1.800 112	70.7 300	31.2	-18.88*	-19.84
210C1 Windsor	CBEFM	OPE ON	CN 346.4	166.3	60.14	42 09 09.0 82 57 05.0	100.000 164	7.3 348	73.2	41.73	-16.50*
212A Attica Township	AP3224	APP MI	EX 178.6	358.6	30.00 BNPED20000225ACP	42 56 55.0 83 08 00.0	0.350 50	25.9 329	7.7 Great Lakes	-6.55 Community	-15.65 Broa
06-2C Lansing	WLNSTV	LI MI	HN 90.2	271.0	102.62 BLCT20020103AAA	42 41 19.0 84 22 35.0	100.000 305		104.2 Young Broadcasting Of Lans	107.1R	-4.5M
213B East Lansing	WKAR-FM	LIC MI	EY 91.0	271.9	105.73 BLED19861204KC	42 42 08.0 84 24 51.0	87.000 273	100.5 541	68.8 Michigan State University	0.36	29.98
215B Detroit	WRCJ-FM	LIC MI	DEN 358.5	178.5	33.89 BLED19811228AJ	42 22 25.0 83 06 50.0	42.000 165	2.8 351	30.7 Board Of Education, City O	23.48	2.77
266B Detroit	WRIF	LIC MI	CN 23.9	204.0	25.28 BLH5812	42 28 15.0 83 15 00.0	27.000 268	6.9 480	33.0 Greater Boston Radio, Inc.	14.5R	10.8M
266B Detroit	WRIF	APP MI	CX 24.0	204.0	25.32 BMLH20050408ABC	42 28 14.0 83 15 01.0	27.000 268	6.9 480	33.0 Greater Boston Radio, Inc	14.5R	10.8M
06Z2 Stevenson	CIII-D«	AP ON	HN 322.8	142.3	86.45 BPFS20041023AAN	42 03 41.0 82 29 05.0	3.000 300		67.0 71.9R	71.9R	14.5M
214B Sandusky	WNFR	LIC MI	DCX 217.9	37.6	69.73 BLED20050303ACY	43 10 27.0 82 36 01.0	42.000 150	4.6 364	43.4 Ross Bible Church	52.64	24.76
211C2 Bay City	WUCX-FM	LIC MI	CN 154.5	334.9	107.47 BLED19891010KB	43 33 10.0 83 41 24.0	30.000 146	69.5 328	46.3 Central Michigan Universit	28.86	48.44
212B Cleveland	WCPN	LIC OH	DCN 321.7	140.8	186.36 BLED19961025KA	41 22 18.0 81 42 48.0	47.000 155	142.5 425	56.5 Ideastream	35.84	102.87
209A Burton	WTAC	APP MI	DEX 135.6	316.0	64.02 BPED20070907AHB	43 05 28.0 83 40 18.0	4.000 57	2.0 286	19.8 Superior Communications	54.77	43.03
209A Speaker Twp.	990510MA	APP MI	CN 200.6	20.5	60.01 BPED19990510MA	43 11 03.0 82 51 56.0	0.175 37	0.9 275	7.9 Speaker Radio	46.58	50.51
209A Burton	WTAC	LIC MI	VX 135.2	315.6	63.57 BLED20020603AAL	43 05 07.0 83 40 19.0	1.000 57	1.6 286	13.6 Superior Communications	54.77	48.82
209A Speaker Twp.	990510MA	APP MI	CX 217.9	37.6	69.73 BPED19990510MA	43 10 27.0 82 36 01.0	0.400 168	1.4 382	18.3 Speaker Radio	55.82	49.79
265A Sarnia	CHOK-1-FM«	OPE ON	DCN 250.7	70.2	63.41 20070424CAN	42 52 09.0 82 23 38.0	1.200 143	6.9 333	33.0	9.5R	53.9M
265A Sarnia	R---«	VAC ON		70.2	63.41 250.7	42 52 09.0 82 23 38.0	6.000 100	6.9 287	33.0	9.5R	53.9M
212A Toledo	WOTL	LIC OH	DCN 18.9	199.2	121.34 BLED19871210KB	41 38 48.0 83 36 22.0	0.700 115	58.7 299	18.3 Family Stations, Inc.	56.29	81.65

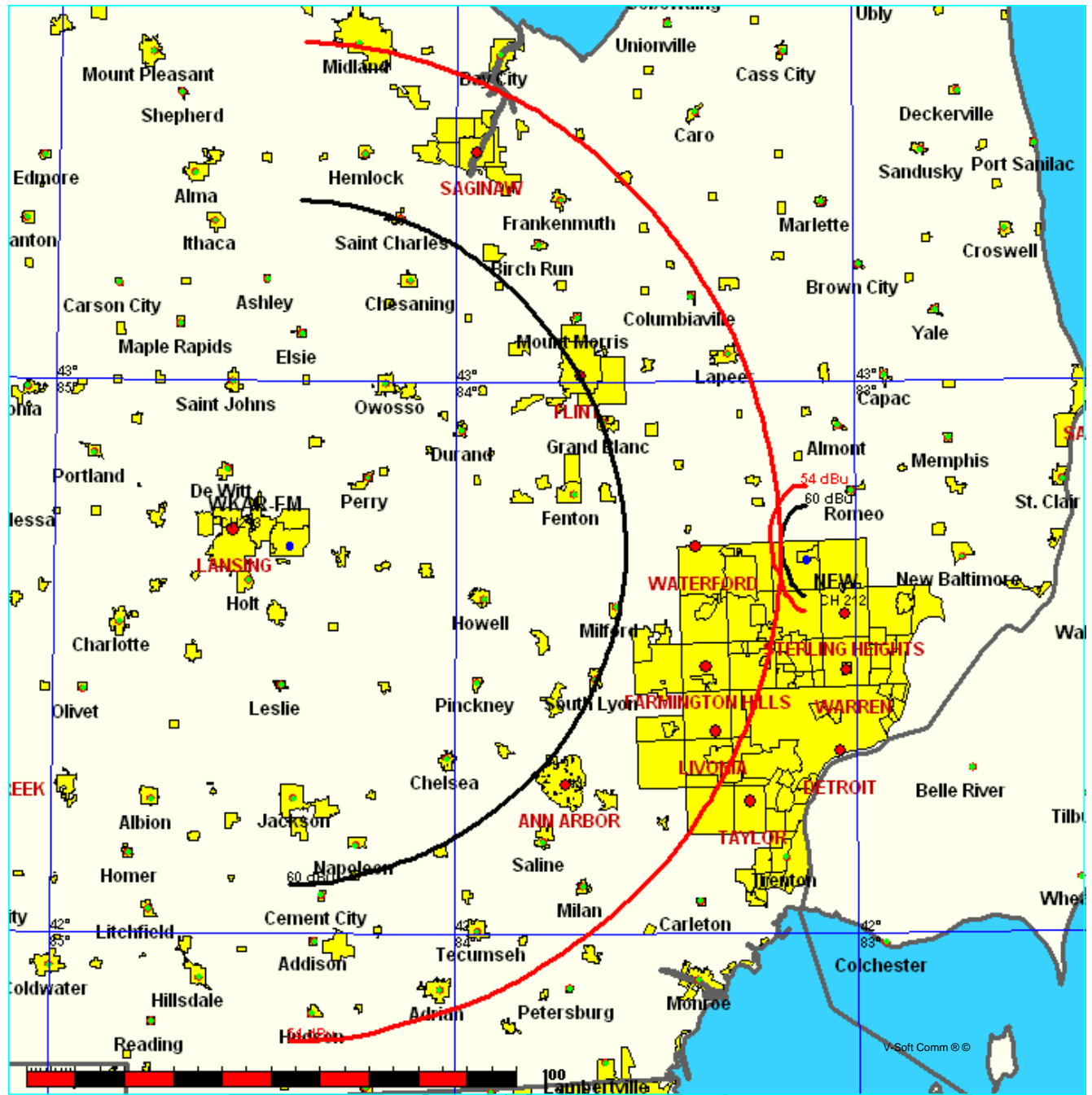
Terrain database is NGDC 30 SEC
 ERP and HAAT on direct-line with reference station.
 Ant Column: (D= DA Standard, Z= DA 73.215, N= Not DA 73.215, _= Omni), Polarization (C,H,V,E), Beamtilt(Y,N,X)
 "*"affixed to 'IN' or 'OUT' values = site inside protected contour.
 « = Station meets FCC minimum distance spacing for its class.
 Reference station has protected zone issue: Canada

Exhibit 16-A

FMCommander Single Allocation Study
10-08-2007

NEW CH 212 A
1.2 kW 296 M COR DA
Prot. = 60 dBu
Intef. = 54 dBu

WKAR-FM CH 213 B BLED19861204KC
87.0 kW, 541 M COR
Prot. = 60 dBu
Intef. = 54 dBu



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Rochester Hills, MI

WKAR vs. NEW.P

10-08-2007

NGDC 30 SEC Terrain Data

FMOver Analysis

NEW
Channel = 212A
Max ERP = 1.2 kW
RCAMSL = 296 M
N. Lat. 42 40 43.0
W. Lng. 83 07 28.0
Protected
60 dBu

WKAR-FM BLED19861204KC
Channel = 213B
Max ERP = 87 kW
RCAMSL = 541 M
N. Lat. 42 42 08.0
W. Lng. 84 24 51.0
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)
212.0	000.0380	0052.5	005.9	093.8	087.0000	0273.6	102.9	53.27
213.0	000.0380	0050.9	005.8	093.8	087.0000	0273.6	102.9	53.29
214.0	000.0380	0049.4	005.7	093.7	087.0000	0273.6	102.8	53.30
215.0	000.0380	0047.9	005.6	093.6	087.0000	0273.6	102.8	53.31
216.0	000.0380	0046.5	005.5	093.5	087.0000	0273.6	102.7	53.32
217.0	000.0380	0045.2	005.4	093.5	087.0000	0273.6	102.7	53.33
218.0	000.0380	0043.9	005.4	093.4	087.0000	0273.6	102.7	53.34
219.0	000.0380	0042.8	005.3	093.3	087.0000	0273.6	102.6	53.36
220.0	000.0380	0041.9	005.2	093.3	087.0000	0273.6	102.6	53.37
221.0	000.0380	0041.6	005.2	093.3	087.0000	0273.6	102.5	53.39
222.0	000.0380	0041.5	005.2	093.2	087.0000	0273.6	102.5	53.41
223.0	000.0380	0041.4	005.2	093.2	087.0000	0273.6	102.4	53.43
224.0	000.0380	0041.1	005.2	093.1	087.0000	0273.6	102.3	53.44
225.0	000.0380	0040.2	005.1	093.1	087.0000	0273.6	102.3	53.45
226.0	000.0380	0038.8	005.0	093.0	087.0000	0273.6	102.3	53.45
227.0	000.0380	0037.2	004.9	092.9	087.0000	0273.6	102.3	53.45
228.0	000.0380	0036.0	004.8	092.9	087.0000	0273.6	102.3	53.45
229.0	000.0380	0035.2	004.8	092.8	087.0000	0273.6	102.3	53.46
230.0	000.0380	0034.7	004.7	092.8	087.0000	0273.6	102.3	53.46
231.0	000.0380	0034.3	004.7	092.7	087.0000	0273.6	102.2	53.47
232.0	000.0380	0033.8	004.7	092.7	087.0000	0273.6	102.2	53.48
233.0	000.0380	0033.1	004.6	092.6	087.0000	0273.6	102.2	53.49
234.0	000.0380	0032.3	004.5	092.6	087.0000	0273.6	102.2	53.49
235.0	000.0380	0031.4	004.5	092.5	087.0000	0273.6	102.2	53.49
236.0	000.0380	0030.9	004.4	092.5	087.0000	0273.6	102.2	53.50
237.0	000.0380	0030.8	004.4	092.4	087.0000	0273.6	102.1	53.51
238.0	000.0380	0030.8	004.4	092.4	087.0000	0273.6	102.1	53.52
239.0	000.0380	0031.0	004.5	092.3	087.0000	0273.6	102.0	53.54
240.0	000.0380	0031.3	004.5	092.3	087.0000	0273.6	102.0	53.56
241.0	000.0384	0031.3	004.5	092.3	087.0000	0273.6	101.9	53.57
242.0	000.0389	0031.1	004.5	092.2	087.0000	0273.6	101.9	53.58
243.0	000.0393	0030.5	004.5	092.2	087.0000	0273.6	101.9	53.59
244.0	000.0397	0029.5	004.4	092.2	087.0000	0273.6	101.8	53.60
245.0	000.0402	0028.4	004.4	092.1	087.0000	0273.6	101.8	53.61
246.0	000.0406	0027.4	004.5	092.1	087.0000	0273.6	101.7	53.62
247.0	000.0411	0026.6	004.5	092.1	087.0000	0273.6	101.7	53.64
248.0	000.0415	0026.0	004.5	092.0	087.0000	0273.6	101.6	53.65
249.0	000.0420	0025.4	004.5	092.0	087.0000	0273.6	101.6	53.66
250.0	000.0424	0025.0	004.5	091.9	087.0000	0273.6	101.6	53.68
251.0	000.0435	0024.6	004.5	091.9	087.0000	0273.6	101.5	53.69
252.0	000.0447	0024.2	004.6	091.9	087.0000	0273.6	101.4	53.71
253.0	000.0459	0023.6	004.6	091.8	087.0000	0273.6	101.4	53.73
254.0	000.0470	0023.0	004.6	091.8	087.0000	0273.6	101.3	53.75
255.0	000.0482	0022.6	004.7	091.8	087.0000	0273.6	101.3	53.76

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256.0	000.0495	0022.2	004.7	091.7	087.0000	0273.6	101.2	53.78
257.0	000.0507	0021.9	004.7	091.7	087.0000	0273.6	101.2	53.80
258.0	000.0519	0021.4	004.8	091.6	087.0000	0273.5	101.1	53.81
259.0	000.0532	0020.8	004.8	091.6	087.0000	0273.5	101.1	53.83
260.0	000.0544	0020.2	004.8	091.6	087.0000	0273.5	101.0	53.84
261.0	000.0546	0019.8	004.8	091.5	087.0000	0273.5	101.0	53.85
262.0	000.0547	0019.1	004.8	091.5	087.0000	0273.5	101.0	53.85
263.0	000.0549	0018.3	004.8	091.4	087.0000	0273.5	101.0	53.86
264.0	000.0551	0017.4	004.8	091.4	087.0000	0273.5	100.9	53.86
265.0	000.0552	0016.6	004.8	091.3	087.0000	0273.5	100.9	53.87
266.0	000.0554	0015.7	004.8	091.3	087.0000	0273.5	100.9	53.87
267.0	000.0555	0014.7	004.8	091.2	087.0000	0273.5	100.9	53.88
268.0	000.0557	0013.8	004.8	091.2	087.0000	0273.5	100.9	53.88
269.0	000.0558	0013.1	004.8	091.1	087.0000	0273.5	100.9	53.88
270.0	000.0560	0012.6	004.9	091.1	087.0000	0273.5	100.9	53.88
271.0	000.0567	0012.1	004.9	091.0	087.0000	0273.4	100.9	53.89
272.0	000.0573	0011.6	004.9	091.0	087.0000	0273.4	100.8	53.89
273.0	000.0580	0011.4	004.9	090.9	087.0000	0273.4	100.8	53.90
274.0	000.0587	0011.2	004.9	090.9	087.0000	0273.4	100.8	53.90
275.0	000.0594	0010.9	004.9	090.8	087.0000	0273.4	100.8	53.90
276.0	000.0601	0010.2	004.9	090.8	087.0000	0273.3	100.8	53.90
277.0	000.0608	0008.6	005.0	090.7	087.0000	0273.3	100.8	53.90
278.0	000.0615	0006.2	005.0	090.7	087.0000	0273.3	100.8	53.90
279.0	000.0622	0003.2	005.0	090.6	087.0000	0273.3	100.8	53.91
280.0	000.0629	0000.6	005.0	090.6	087.0000	0273.2	100.8	53.91
281.0	000.0647	-0001.9	005.0	090.5	087.0000	0273.2	100.8	53.91
282.0	000.0665	-0003.6	005.1	090.5	087.0000	0273.2	100.7	53.92
283.0	000.0683	-0004.7	005.1	090.4	087.0000	0273.1	100.7	53.92
284.0	000.0702	-0005.0	005.1	090.4	087.0000	0273.1	100.7	53.93
285.0	000.0720	-0005.1	005.2	090.3	087.0000	0273.1	100.7	53.93
286.0	000.0739	-0005.3	005.2	090.3	087.0000	0273.1	100.7	53.93
287.0	000.0758	-0005.7	005.3	090.2	087.0000	0273.0	100.7	53.93
288.0	000.0778	-0006.0	005.3	090.1	087.0000	0273.0	100.7	53.94
289.0	000.0798	-0006.0	005.3	090.1	087.0000	0273.0	100.7	53.94
290.0	000.0817	-0006.0	005.4	090.0	087.0000	0272.9	100.7	53.94
291.0	000.0856	-0005.9	005.4	090.0	087.0000	0272.9	100.6	53.94
292.0	000.0896	-0005.8	005.5	089.9	087.0000	0272.9	100.6	53.95
293.0	000.0939	-0005.5	005.5	089.8	087.0000	0272.8	100.6	53.96
294.0	000.0983	-0005.2	005.6	089.8	087.0000	0272.8	100.6	53.96
295.0	000.1029	-0004.7	005.7	089.7	087.0000	0272.8	100.5	53.97
296.0	000.1078	-0004.3	005.7	089.6	087.0000	0272.7	100.5	53.97
297.0	000.1128	-0003.9	005.8	089.6	087.0000	0272.7	100.5	53.98
298.0	000.1182	-0003.5	005.9	089.5	087.0000	0272.7	100.5	53.98
299.0	000.1237	-0002.9	005.9	089.4	087.0000	0272.6	100.5	53.98
300.0	000.1296	-0002.3	006.0	089.4	087.0000	0272.6	100.5	53.98
301.0	000.1357	-0001.9	006.1	089.3	087.0000	0272.6	100.5	53.98
302.0	000.1421	-0001.6	006.2	089.2	087.0000	0272.5	100.5	53.98
303.0	000.1488	-0001.2	006.2	089.1	087.0000	0272.5	100.5	53.98
304.0	000.1558	-0000.7	006.3	089.1	087.0000	0272.4	100.5	53.98
305.0	000.1631	0000.0	006.4	089.0	087.0000	0272.4	100.5	53.98
306.0	000.1708	0000.6	006.4	088.9	087.0000	0272.4	100.5	53.98
307.0	000.1788	0001.2	006.5	088.8	087.0000	0272.3	100.5	53.97
308.0	000.1873	0001.6	006.6	088.8	087.0000	0272.3	100.5	53.97
309.0	000.1961	0002.0	006.7	088.7	087.0000	0272.2	100.5	53.96
310.0	000.2053	0002.3	006.8	088.6	087.0000	0272.2	100.5	53.96
311.0	000.2150	0002.7	006.8	088.5	087.0000	0272.2	100.5	53.95
312.0	000.2251	0003.2	006.9	088.4	087.0000	0272.1	100.5	53.94
313.0	000.2358	0003.9	007.0	088.4	087.0000	0272.1	100.6	53.93
314.0	000.2469	0004.6	007.1	088.3	087.0000	0272.0	100.6	53.92
315.0	000.2585	0005.5	007.2	088.2	087.0000	0272.0	100.6	53.91
316.0	000.2707	0006.5	007.2	088.1	087.0000	0271.9	100.7	53.90
317.0	000.2834	0007.4	007.3	088.0	087.0000	0271.9	100.7	53.89
318.0	000.2968	0008.3	007.4	087.9	087.0000	0271.9	100.7	53.87

Exhibit 16-A

Rochester Hills, MI

319.0	000.3108	0009.2	007.5	087.9	087.0000	0271.8	100.8	53.86
320.0	000.3254	0010.3	007.6	087.8	087.0000	0271.8	100.8	53.85
321.0	000.3408	0011.5	007.7	087.7	087.0000	0271.7	100.9	53.83
322.0	000.3568	0012.6	007.8	087.6	087.0000	0271.7	100.9	53.81
323.0	000.3736	0013.3	007.9	087.5	087.0000	0271.6	101.0	53.79
324.0	000.3913	0013.8	008.0	087.4	087.0000	0271.6	101.0	53.77
325.0	000.4097	0014.2	008.1	087.3	087.0000	0271.5	101.1	53.75
326.0	000.4290	0014.7	008.2	087.2	087.0000	0271.5	101.2	53.73
327.0	000.4492	0015.1	008.3	087.1	087.0000	0271.5	101.2	53.71
328.0	000.4704	0015.4	008.4	087.0	087.0000	0271.4	101.3	53.69
329.0	000.4926	0015.7	008.5	087.0	087.0000	0271.4	101.4	53.66
330.0	000.5158	0015.7	008.6	086.9	087.0000	0271.4	101.5	53.64
331.0	000.5401	0015.4	008.7	086.8	087.0000	0271.3	101.5	53.61
332.0	000.5655	0015.0	008.8	086.7	087.0000	0271.3	101.6	53.58

Exhibit 16-B

FMCommander Single Allocation Study
10-08-2007

NEW CH 212 A
1.2 kW 296 M COR DA
Prot. = 60 dBu
Intef. = 100 dBu

WRCJ-FM CH 215 B BLED19811228AJ
42.0 kW, 351 M COR DA
Prot. = 60 dBu
Intef. = 100 dBu

