

# Educational Media Foundation

5700 West Oaks Boulevard ♦ Rocklin ♦ California ♦ 95765

Exhibit 16

Jamestown, ND

## Channel Study

REFERENCE CH# 206A - 89.1 MHz, Pwr= 1.7 kW, HAAT= 87.0 M, COR= 538 M DISPLAY DATES  
46 50 05.0 N. Average Protected F(50-50)= 19.8 km DATA 11-12-08  
98 41 31.0 W. Omni-directional SEARCH 11-21-08

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*
205A Jamestown	KLUU	LIC	VX ND	0.0 0.0	0.00 BLED20080811ACB	46 50 05.0 98 41 31.0	0.500 87	22.2 538	14.8 Educational Media Foundati	-42.71*	-44.96*
06Z2C Fargo	WDAY-TV	LI	HN ND	79.6 260.7	115.37 BMLCT624	47 00 43.0 97 11 58.0	100.000 351	17.2 643	106.4 Forum Communications Compa	210.5R	-8.3M
206C1 Lincoln	KGCD	CP	CX ND	261.1 79.6	163.20 BPED20060628ACV	46 35 24.0 100 47 47.0	50.000 211	144.8 793	57.7 Educational Media Foundati	0.43	44.11
206C1 Hawley	1211513	APP	DEX MN	77.9 259.7	196.81 BNPED20071018ARB	47 10 39.0 96 09 11.0	75.000 125	146.0 481	54.8 Alliance For The Arts And	30.12	75.46
206C1 Hawley	1213531	APP	DVX MN	95.9 277.6	184.35 BNPED20071019AWR	46 38 28.0 96 17 47.0	100.000 81	124.2 444	45.6 Pioneer Public Broadcastin	39.46	72.15
204C1 Fargo	KFBN	LIC	EN ND	79.6 260.6	115.84 BLED19971222KD	47 00 48.0 97 11 37.0	100.000 265	9.3 556	68.4 Fargo Baptist Church	85.86	45.57
206C3 Barnesville	1212897	APP	VX MN	93.1 274.9	190.09 BNPED20071022AWA	46 42 57.0 96 12 33.0	12.000 100	104.9 492	38.8 We Have This Hope Christia	64.53	84.80

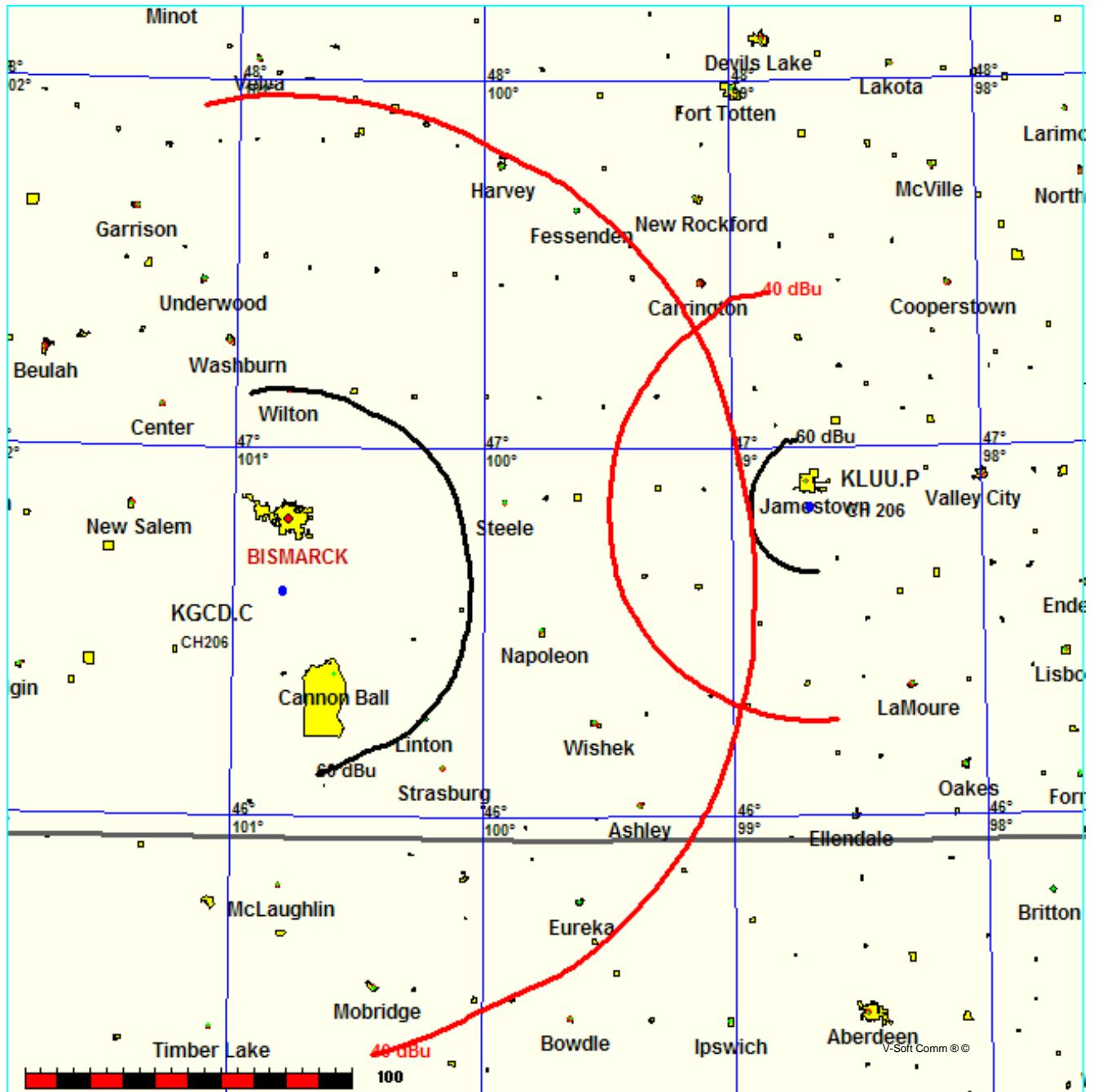
Terrain database is NGDC 30 SEC, R= 73.215 qualifying spacings or FCC minimum spacings in KM, M= Margin in KM  
Contour distances are on direct line to and from reference station. Reference Zone = 2, Co to 3rd adjacent.  
Ant Column: (D= DA Standard, Z= DA 73.215, N= Not DA 73.215, \_= Omni), Polarization (C,H,V,E), Beamtilt(Y,N,X)  
\*\*affixed to 'IN' or 'OUT' values = site inside protected contour.  
Reference station has protected zone issue: Canada- AM tower

Exhibit 16-A

FMCommander Single Allocation Study  
11-24-2008

KLUU.P CH 206 A  
1.7 kW 538 M COR  
Prot. = 60 dBu  
Intef. = 40 dBu

KGCD-C CH 206 C1 BPED20060628ACV  
50.0 kW, 792.6 M COR  
Prot. = 60 dBu  
Intef. = 40 dBu



KGCD.CP vs. KLUU.P

11-24-2008

NGDC 30 SEC Terrain Data

FMOver Analysis

KLUU. P

Channel = 206A

Max ERP = 1.7 kW

RCAMSL = 538 M

N. Lat. 46 50 05.0

W. Lng. 98 41 31.0

Protected  
60 dBu

KGCD-C

BPED20060628ACV

Channel = 206C1

Max ERP = 50 kW

RCAMSL = 792.6 M

N. Lat. 46 35 24.0

W. Lng. 100 47 47.0

Interfering  
40 dBu

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
210.0	001.7000	0081.1	019.0	085.2	050.0000	0205.7	152.0	38.79
211.0	001.7000	0081.1	019.0	085.2	050.0000	0205.7	151.7	38.83
212.0	001.7000	0081.1	019.0	085.1	050.0000	0205.6	151.5	38.88
213.0	001.7000	0081.1	019.0	085.0	050.0000	0205.6	151.2	38.92
214.0	001.7000	0081.0	019.0	084.9	050.0000	0205.6	150.9	38.97
215.0	001.7000	0081.0	019.0	084.9	050.0000	0205.5	150.7	39.01
216.0	001.7000	0081.0	019.0	084.8	050.0000	0205.5	150.4	39.05
217.0	001.7000	0081.0	019.0	084.7	050.0000	0205.4	150.2	39.09
218.0	001.7000	0081.0	019.0	084.6	050.0000	0205.4	149.9	39.14
219.0	001.7000	0081.0	019.0	084.5	050.0000	0205.3	149.7	39.18
220.0	001.7000	0081.0	019.0	084.4	050.0000	0205.3	149.4	39.22
221.0	001.7000	0080.9	019.0	084.3	050.0000	0205.3	149.2	39.26
222.0	001.7000	0080.8	019.0	084.2	050.0000	0205.3	149.0	39.29
223.0	001.7000	0080.7	019.0	084.1	050.0000	0205.3	148.8	39.33
224.0	001.7000	0080.6	019.0	084.0	050.0000	0205.3	148.5	39.37
225.0	001.7000	0080.7	019.0	084.0	050.0000	0205.3	148.3	39.41
226.0	001.7000	0080.9	019.0	083.9	050.0000	0205.3	148.1	39.45
227.0	001.7000	0080.9	019.0	083.8	050.0000	0205.3	147.9	39.48
228.0	001.7000	0080.7	019.0	083.6	050.0000	0205.3	147.7	39.52
229.0	001.7000	0080.3	018.9	083.5	050.0000	0205.3	147.5	39.54
230.0	001.7000	0080.0	018.9	083.4	050.0000	0205.3	147.4	39.57
231.0	001.7000	0079.7	018.9	083.3	050.0000	0205.4	147.2	39.60
232.0	001.7000	0079.6	018.9	083.2	050.0000	0205.4	147.0	39.63
233.0	001.7000	0079.4	018.8	083.1	050.0000	0205.4	146.9	39.66
234.0	001.7000	0079.1	018.8	083.0	050.0000	0205.4	146.8	39.68
235.0	001.7000	0078.8	018.8	082.8	050.0000	0205.4	146.6	39.71
236.0	001.7000	0078.6	018.7	082.7	050.0000	0205.4	146.5	39.73
237.0	001.7000	0078.5	018.7	082.6	050.0000	0205.5	146.3	39.76
238.0	001.7000	0078.5	018.7	082.5	050.0000	0205.5	146.2	39.78
239.0	001.7000	0078.4	018.7	082.4	050.0000	0205.5	146.1	39.81
240.0	001.7000	0078.2	018.7	082.3	050.0000	0205.5	146.0	39.83
241.0	001.7000	0078.2	018.7	082.1	050.0000	0205.5	145.8	39.85
242.0	001.7000	0078.2	018.7	082.0	050.0000	0205.5	145.7	39.87
243.0	001.7000	0078.3	018.7	081.9	050.0000	0205.4	145.6	39.89
244.0	001.7000	0078.3	018.7	081.8	050.0000	0205.4	145.5	39.91
245.0	001.7000	0078.1	018.7	081.7	050.0000	0205.4	145.4	39.93
246.0	001.7000	0078.0	018.7	081.5	050.0000	0205.4	145.3	39.94
247.0	001.7000	0077.8	018.6	081.4	050.0000	0205.3	145.2	39.95
248.0	001.7000	0077.5	018.6	081.3	050.0000	0205.3	145.2	39.96
249.0	001.7000	0077.1	018.5	081.1	050.0000	0205.3	145.2	39.97
250.0	001.7000	0076.6	018.5	081.0	050.0000	0205.2	145.2	39.97
251.0	001.7000	0076.1	018.4	080.9	050.0000	0205.2	145.1	39.97
252.0	001.7000	0075.6	018.4	080.8	050.0000	0205.1	145.1	39.97

# Educational Media Foundation

Exhibit 16-A

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Jamestown, ND

253.0	001.7000	0075.2	018.3	080.6	050.0000	0205.1	145.1	39.97
254.0	001.7000	0074.8	018.2	080.5	050.0000	0205.0	145.2	39.96
255.0	001.7000	0074.4	018.2	080.4	050.0000	0204.9	145.2	39.96
256.0	001.7000	0074.0	018.1	080.2	050.0000	0204.8	145.2	39.95
257.0	001.7000	0073.6	018.1	080.1	050.0000	0204.7	145.2	39.95
258.0	001.7000	0073.1	018.0	080.0	050.0000	0204.6	145.2	39.94
259.0	001.7000	0072.8	018.0	079.9	050.0000	0204.4	145.3	39.93
260.0	001.7000	0072.6	018.0	079.7	050.0000	0204.3	145.3	39.92
261.0	001.7000	0072.4	017.9	079.6	050.0000	0204.1	145.3	39.92
262.0	001.7000	0072.2	017.9	079.5	050.0000	0204.0	145.3	39.91
263.0	001.7000	0071.9	017.9	079.4	050.0000	0203.9	145.4	39.90
264.0	001.7000	0071.6	017.8	079.3	050.0000	0203.8	145.4	39.88
265.0	001.7000	0071.3	017.8	079.1	050.0000	0203.7	145.5	39.87
266.0	001.7000	0071.1	017.8	079.0	050.0000	0203.7	145.5	39.86
267.0	001.7000	0070.9	017.7	078.9	050.0000	0203.6	145.6	39.85
268.0	001.7000	0070.8	017.7	078.8	050.0000	0203.6	145.7	39.84
269.0	001.7000	0070.6	017.7	078.6	050.0000	0203.6	145.7	39.83
270.0	001.7000	0070.6	017.7	078.5	050.0000	0203.6	145.8	39.82
271.0	001.7000	0070.6	017.7	078.4	050.0000	0203.6	145.8	39.81
272.0	001.7000	0070.6	017.7	078.3	050.0000	0203.6	145.9	39.80
273.0	001.7000	0070.6	017.7	078.2	050.0000	0203.6	146.0	39.78
274.0	001.7000	0070.7	017.7	078.1	050.0000	0203.6	146.0	39.77
275.0	001.7000	0070.7	017.7	077.9	050.0000	0203.6	146.1	39.76
276.0	001.7000	0070.7	017.7	077.8	050.0000	0203.7	146.2	39.74
277.0	001.7000	0070.8	017.7	077.7	050.0000	0203.7	146.3	39.73
278.0	001.7000	0070.8	017.7	077.6	050.0000	0203.8	146.4	39.71
279.0	001.7000	0070.8	017.7	077.5	050.0000	0203.9	146.5	39.70
280.0	001.7000	0070.9	017.7	077.4	050.0000	0203.9	146.6	39.68
281.0	001.7000	0071.1	017.8	077.2	050.0000	0204.0	146.7	39.67
282.0	001.7000	0071.4	017.8	077.1	050.0000	0204.1	146.7	39.66
283.0	001.7000	0071.7	017.8	077.0	050.0000	0204.3	146.8	39.64
284.0	001.7000	0072.0	017.9	076.9	050.0000	0204.4	146.9	39.63
285.0	001.7000	0072.2	017.9	076.8	050.0000	0204.5	147.0	39.61
286.0	001.7000	0072.5	017.9	076.7	050.0000	0204.7	147.2	39.60
287.0	001.7000	0072.9	018.0	076.5	050.0000	0204.8	147.3	39.58
288.0	001.7000	0073.3	018.1	076.4	050.0000	0205.0	147.4	39.57
289.0	001.7000	0073.6	018.1	076.3	050.0000	0205.2	147.5	39.55
290.0	001.7000	0073.8	018.1	076.2	050.0000	0205.3	147.6	39.53
291.0	001.7000	0074.0	018.1	076.1	050.0000	0205.5	147.8	39.50
292.0	001.7000	0074.2	018.2	076.0	050.0000	0205.7	147.9	39.48
293.0	001.7000	0074.3	018.2	075.9	050.0000	0205.9	148.1	39.46
294.0	001.7000	0074.3	018.2	075.8	050.0000	0206.1	148.3	39.43
295.0	001.7000	0074.2	018.2	075.7	050.0000	0206.2	148.5	39.40
296.0	001.7000	0074.2	018.2	075.6	050.0000	0206.4	148.7	39.37
297.0	001.7000	0074.2	018.2	075.5	050.0000	0206.6	148.9	39.33
298.0	001.7000	0074.2	018.2	075.4	050.0000	0206.7	149.1	39.30
299.0	001.7000	0074.2	018.2	075.3	050.0000	0206.9	149.3	39.27
300.0	001.7000	0074.3	018.2	075.2	050.0000	0207.1	149.5	39.24
301.0	001.7000	0074.4	018.2	075.1	050.0000	0207.2	149.7	39.21
302.0	001.7000	0074.6	018.2	075.0	050.0000	0207.4	149.9	39.17
303.0	001.7000	0074.7	018.2	074.9	050.0000	0207.5	150.2	39.14
304.0	001.7000	0074.8	018.2	074.9	050.0000	0207.7	150.4	39.11
305.0	001.7000	0075.0	018.3	074.8	050.0000	0207.8	150.6	39.07
306.0	001.7000	0075.3	018.3	074.7	050.0000	0207.9	150.8	39.04
307.0	001.7000	0075.5	018.3	074.6	050.0000	0208.1	151.1	39.00
308.0	001.7000	0075.7	018.4	074.5	050.0000	0208.2	151.3	38.96
309.0	001.7000	0076.1	018.4	074.4	050.0000	0208.3	151.5	38.93
310.0	001.7000	0076.6	018.5	074.3	050.0000	0208.4	151.7	38.89