

# Educational Media Foundation

5700 West Oaks Boulevard ♦ Rocklin ♦ California ♦ 95765

Exhibit 16

Jamestown, ND

## Channel Study

REFERENCE		CH# 206A - 89.1 MHz, Pwr= 1.6 kW, HAAT= 87.0 M, COR= 537.1 M						DISPLAY DATES			
46 50 05.0 N.		Average Protected F(50-50)= 19.5 km						DATA 07-26-08			
98 41 31.0 W.		Omni-directional						SEARCH 07-29-08			
CH	CALL	TYPE	ANT	AZI.	DIST	LAT.	Pwr(kW)	INT(km)	PRO(km)	*IN*	*OUT*
CITY		STATE		<--	FILE #	LNG.	HAAT(M)	COR(M)	LICENSEE	(Overlap	in km)
206A	KLUU	APP	VX	0.0	0.00	46 50 05.0	1.700	66.1	20.5	-86.23*	-85.56*
Jamestown		ND		0.0	BMPED20080625ACE	98 41 31.0	87	538	Educational Media Foundati		
205A	KLUU	CP	VX	328.6	11.66	46 55 27.0	1.800	22.7	15.2	-29.92*	-31.26*
Jamestown		ND		148.5	BPED19990907MB	98 46 19.0	44	504	Educational Media Foundati		
06Z2C	WDAYTV	LI	HN	79.6	115.37	47 00 43.0	100.000	16.8	106.4	211.0R	-7.8M
Fargo		ND		260.7	BMLCT624	97 11 58.0	351	643	Forum Communications Compa		
206C1	KGCD	CP	CX	261.1	163.20	46 35 24.0	50.000	144.8	57.7	0.83	45.19
Lincoln		ND		79.6	BPED20060628ACV	100 47 47.0	211	793	Educational Media Foundati		
206C1	1211513	APP	DEX	77.9	196.81	47 10 39.0	75.000	146.0	54.8	30.53	76.52
Hawley		MN		259.7	BNPED20071018ARB	96 09 11.0	125	481	Alliance For The Arts And		
206C1	1213531	APP	DVX	95.9	184.35	46 38 28.0	100.000	124.2	45.6	39.87	73.22
Hawley		MN		277.6	BNPED20071019AWR	96 17 47.0	81	444	Pioneer Public Broadcastin		
204C1	KFBN	LIC	EN	79.6	115.84	47 00 48.0	100.000	9.3	68.4	86.26	45.61
Fargo		ND		260.6	BLED19971222KD	97 11 37.0	265	556	Fargo Baptist Church		
206C3	1212897	APP	VX	93.1	190.09	46 42 57.0	12.000	104.9	38.8	64.93	85.87
Barnesville		MN		274.9	BNPED20071022AWA	96 12 33.0	100	492	We Have This Hope Christia		

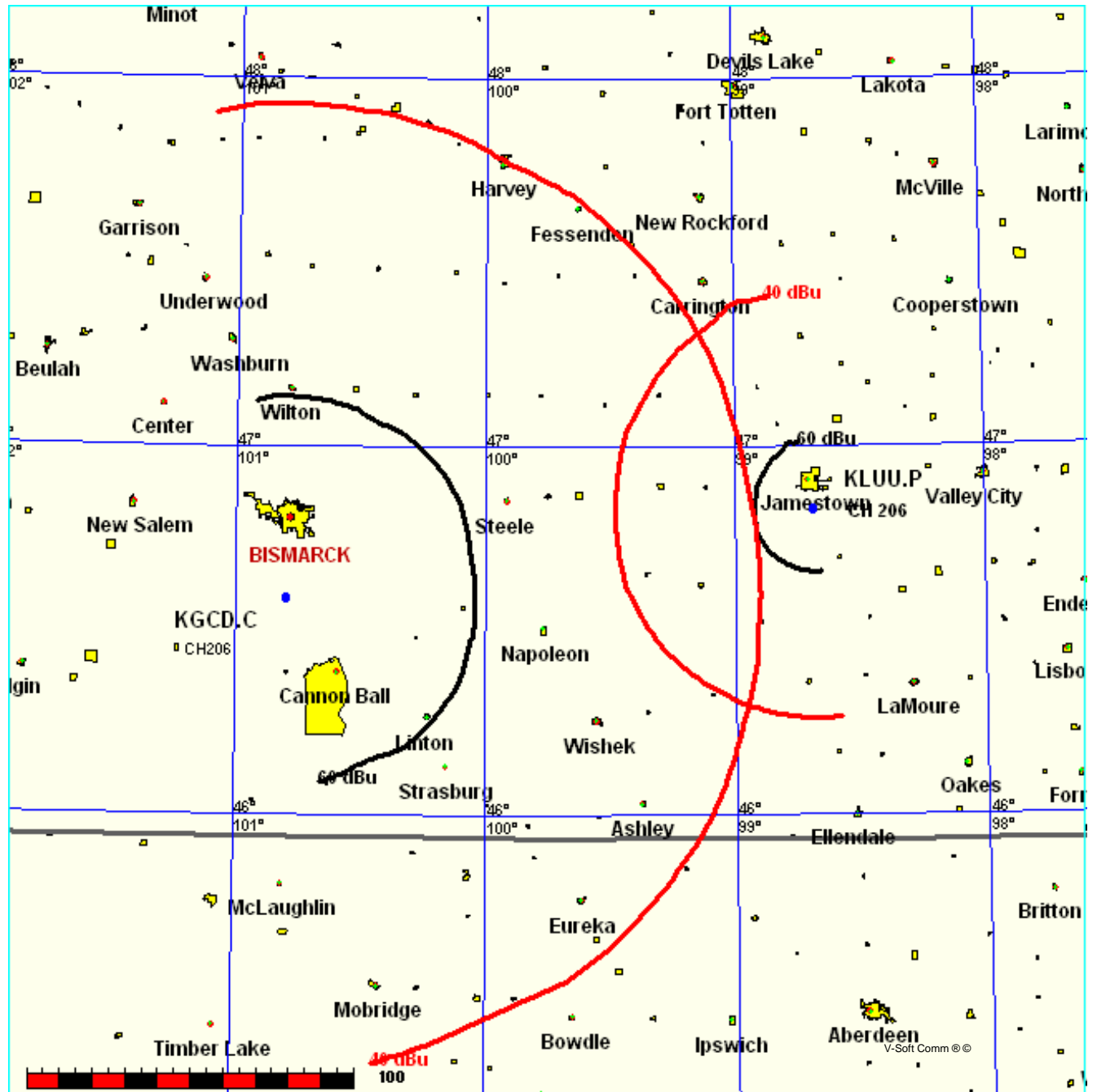
Terrain database is NGDC 30 SEC Distance + R = 73.215 or FCC spacings in KM, Distance + M = Margin in KM  
Contour distances are on direct line to and from reference station. Reference Zone = 2. With 3rd Adj Channels.  
Ant Column: (D= DA Standard, Z= DA 73.215, N= Not DA 73.215, \_= Omni), Polarization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

Exhibit 16-A

FMCommander Single Allocation Study  
07-29-2008

KLUU.P CH 206 A  
1.6 kW 537.1 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



KVLQ.CP vs. KLUU.P

07-29-2008

NGDC 30 SEC Terrain Data

FMOver Analysis

KLUU. P

Channel = 206A

Max ERP = 1.6 kW

RCAMSL = 537.1 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	001.6000	0080.2	018.6	085.1	050.0000	0205.6	152.2	38.75
211.0	001.6000	0080.2	018.6	085.0	050.0000	0205.6	151.9	38.80
212.0	001.6000	0080.2	018.6	084.9	050.0000	0205.6	151.7	38.84
213.0	001.6000	0080.2	018.6	084.9	050.0000	0205.6	151.4	38.88
214.0	001.6000	0080.1	018.6	084.8	050.0000	0205.5	151.1	38.93
215.0	001.6000	0080.1	018.6	084.7	050.0000	0205.5	150.9	38.97
216.0	001.6000	0080.1	018.6	084.6	050.0000	0205.4	150.6	39.01
217.0	001.6000	0080.1	018.6	084.6	050.0000	0205.4	150.4	39.05
218.0	001.6000	0080.1	018.6	084.5	050.0000	0205.3	150.1	39.09
219.0	001.6000	0080.1	018.6	084.4	050.0000	0205.3	149.9	39.13
220.0	001.6000	0080.1	018.6	084.3	050.0000	0205.3	149.7	39.17
221.0	001.6000	0080.0	018.6	084.2	050.0000	0205.3	149.4	39.21
222.0	001.6000	0079.9	018.6	084.1	050.0000	0205.3	149.2	39.25
223.0	001.6000	0079.8	018.6	084.0	050.0000	0205.3	149.0	39.29
224.0	001.6000	0079.7	018.6	083.9	050.0000	0205.3	148.8	39.32
225.0	001.6000	0079.8	018.6	083.8	050.0000	0205.3	148.6	39.36
226.0	001.6000	0080.0	018.6	083.8	050.0000	0205.3	148.4	39.40
227.0	001.6000	0080.0	018.6	083.7	050.0000	0205.3	148.2	39.44
228.0	001.6000	0079.8	018.6	083.6	050.0000	0205.3	148.0	39.47
229.0	001.6000	0079.4	018.5	083.4	050.0000	0205.3	147.8	39.49
230.0	001.6000	0079.1	018.5	083.3	050.0000	0205.4	147.7	39.52
231.0	001.6000	0078.8	018.5	083.2	050.0000	0205.4	147.5	39.55
232.0	001.6000	0078.7	018.4	083.1	050.0000	0205.4	147.3	39.58
233.0	001.6000	0078.5	018.4	083.0	050.0000	0205.4	147.2	39.61
234.0	001.6000	0078.2	018.4	082.9	050.0000	0205.4	147.1	39.63
235.0	001.6000	0077.9	018.4	082.8	050.0000	0205.4	146.9	39.65
236.0	001.6000	0077.7	018.3	082.7	050.0000	0205.5	146.8	39.68
237.0	001.6000	0077.6	018.3	082.5	050.0000	0205.5	146.7	39.70
238.0	001.6000	0077.6	018.3	082.4	050.0000	0205.5	146.5	39.73
239.0	001.6000	0077.5	018.3	082.3	050.0000	0205.5	146.4	39.75
240.0	001.6000	0077.3	018.3	082.2	050.0000	0205.5	146.3	39.77
241.0	001.6000	0077.3	018.3	082.1	050.0000	0205.5	146.2	39.79
242.0	001.6000	0077.3	018.3	082.0	050.0000	0205.4	146.0	39.81
243.0	001.6000	0077.4	018.3	081.8	050.0000	0205.4	145.9	39.83
244.0	001.6000	0077.4	018.3	081.7	050.0000	0205.4	145.8	39.85
245.0	001.6000	0077.2	018.3	081.6	050.0000	0205.4	145.7	39.87
246.0	001.6000	0077.1	018.2	081.5	050.0000	0205.4	145.6	39.88
247.0	001.6000	0076.9	018.2	081.4	050.0000	0205.3	145.6	39.89
248.0	001.6000	0076.6	018.2	081.2	050.0000	0205.3	145.5	39.90
249.0	001.6000	0076.2	018.1	081.1	050.0000	0205.3	145.5	39.91
250.0	001.6000	0075.7	018.1	081.0	050.0000	0205.2	145.5	39.91
251.0	001.6000	0075.2	018.0	080.9	050.0000	0205.2	145.5	39.91

# Educational Media Foundation

Exhibit 16-A

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Jamestown, ND

252.0	001.6000	0074.7	017.9	080.7	050.0000	0205.1	145.5	39.91
253.0	001.6000	0074.3	017.9	080.6	050.0000	0205.1	145.5	39.91
254.0	001.6000	0073.9	017.8	080.5	050.0000	0205.0	145.5	39.90
255.0	001.6000	0073.5	017.8	080.4	050.0000	0204.9	145.5	39.90
256.0	001.6000	0073.1	017.7	080.2	050.0000	0204.8	145.5	39.89
257.0	001.6000	0072.7	017.7	080.1	050.0000	0204.7	145.5	39.89
258.0	001.6000	0072.2	017.6	080.0	050.0000	0204.6	145.6	39.88
259.0	001.6000	0071.9	017.6	079.9	050.0000	0204.4	145.6	39.87
260.0	001.6000	0071.7	017.6	079.7	050.0000	0204.3	145.6	39.86
261.0	001.6000	0071.5	017.5	079.6	050.0000	0204.1	145.6	39.86
262.0	001.6000	0071.3	017.5	079.5	050.0000	0204.0	145.7	39.85
263.0	001.6000	0071.0	017.5	079.4	050.0000	0203.9	145.7	39.84
264.0	001.6000	0070.7	017.4	079.3	050.0000	0203.8	145.8	39.82
265.0	001.6000	0070.4	017.4	079.1	050.0000	0203.8	145.8	39.81
266.0	001.6000	0070.2	017.4	079.0	050.0000	0203.7	145.9	39.80
267.0	001.6000	0070.0	017.3	078.9	050.0000	0203.6	145.9	39.79
268.0	001.6000	0069.9	017.3	078.8	050.0000	0203.6	146.0	39.78
269.0	001.6000	0069.7	017.3	078.7	050.0000	0203.6	146.0	39.77
270.0	001.6000	0069.7	017.3	078.6	050.0000	0203.6	146.1	39.76
271.0	001.6000	0069.7	017.3	078.4	050.0000	0203.6	146.2	39.75
272.0	001.6000	0069.7	017.3	078.3	050.0000	0203.6	146.2	39.74
273.0	001.6000	0069.7	017.3	078.2	050.0000	0203.6	146.3	39.73
274.0	001.6000	0069.8	017.3	078.1	050.0000	0203.6	146.3	39.71
275.0	001.6000	0069.8	017.3	078.0	050.0000	0203.6	146.4	39.70
276.0	001.6000	0069.8	017.3	077.9	050.0000	0203.7	146.5	39.69
277.0	001.6000	0069.9	017.3	077.8	050.0000	0203.7	146.6	39.67
278.0	001.6000	0069.9	017.3	077.6	050.0000	0203.8	146.7	39.66
279.0	001.6000	0069.9	017.3	077.5	050.0000	0203.8	146.8	39.64
280.0	001.6000	0070.0	017.3	077.4	050.0000	0203.9	146.9	39.63
281.0	001.6000	0070.2	017.4	077.3	050.0000	0204.0	147.0	39.62
282.0	001.6000	0070.5	017.4	077.2	050.0000	0204.1	147.0	39.60
283.0	001.6000	0070.8	017.4	077.1	050.0000	0204.2	147.1	39.59
284.0	001.6000	0071.1	017.5	077.0	050.0000	0204.3	147.2	39.58
285.0	001.6000	0071.3	017.5	076.8	050.0000	0204.4	147.3	39.56
286.0	001.6000	0071.6	017.5	076.7	050.0000	0204.6	147.4	39.55
287.0	001.6000	0072.0	017.6	076.6	050.0000	0204.7	147.5	39.53
288.0	001.6000	0072.4	017.7	076.5	050.0000	0204.9	147.6	39.52
289.0	001.6000	0072.7	017.7	076.4	050.0000	0205.0	147.8	39.50
290.0	001.6000	0072.9	017.7	076.3	050.0000	0205.2	147.9	39.48
291.0	001.6000	0073.1	017.7	076.2	050.0000	0205.4	148.0	39.46
292.0	001.6000	0073.3	017.8	076.1	050.0000	0205.5	148.2	39.43
293.0	001.6000	0073.4	017.8	076.0	050.0000	0205.7	148.4	39.41
294.0	001.6000	0073.4	017.8	075.9	050.0000	0205.9	148.5	39.38
295.0	001.6000	0073.3	017.8	075.8	050.0000	0206.0	148.7	39.35
296.0	001.6000	0073.3	017.8	075.7	050.0000	0206.2	148.9	39.32
297.0	001.6000	0073.3	017.8	075.6	050.0000	0206.4	149.1	39.29
298.0	001.6000	0073.3	017.8	075.5	050.0000	0206.5	149.3	39.26
299.0	001.6000	0073.3	017.8	075.4	050.0000	0206.7	149.5	39.23
300.0	001.6000	0073.4	017.8	075.3	050.0000	0206.9	149.7	39.20
301.0	001.6000	0073.5	017.8	075.2	050.0000	0207.0	149.9	39.17
302.0	001.6000	0073.7	017.8	075.2	050.0000	0207.2	150.1	39.13
303.0	001.6000	0073.8	017.8	075.1	050.0000	0207.3	150.4	39.10
304.0	001.6000	0073.9	017.8	075.0	050.0000	0207.5	150.6	39.07
305.0	001.6000	0074.1	017.9	074.9	050.0000	0207.6	150.8	39.03
306.0	001.6000	0074.4	017.9	074.8	050.0000	0207.7	151.0	39.00
307.0	001.6000	0074.6	017.9	074.7	050.0000	0207.9	151.2	38.97
308.0	001.6000	0074.8	018.0	074.6	050.0000	0208.0	151.5	38.93
309.0	001.6000	0075.2	018.0	074.6	050.0000	0208.1	151.7	38.90
310.0	001.6000	0075.7	018.1	074.5	050.0000	0208.2	151.9	38.86