

# Educational Media Foundation

5700 West Oaks Boulevard ♦ Rocklin ♦ California ♦ 95765

Exhibit 15

Lakewood, CO

## Allocation Study

REFERENCE		CH# 201A - 88.1 MHz, Pwr= 0.43 kW, HAAT=321.0M, COR= 2348 M								DISPLAY DATES	
39 40 18 N		Average Protected F(50-50)= 26.5 km								DATA	09-25-03
105 13 05 W		Ave. F(50-10) 40 dBu= 76.8 54 dBu= 40.0 80 dBu= 8.3 100 dBu= 1.5								SEARCH	10-27-03
CH	CALL	TYPE	AZI.	DIST	LAT.	Pwr(kW)	COR(M)	PRO(km)	*IN*	*OUT*	
CITY		STATE	<--	FILE #	LNG.	HAAT(M)	INT(km)	LICENSEE	(Overlap	in km)	
201C2	KFDN.C	CP DVX	174.9	7.99	39 36 00	0.821	2461	18.7	-102.84	-84.75*	
Lakewood		CO	354.9	BPED19960926MD	105 12 35	391	58.6	Colorado Christian Univer			
203A	KGNU	LIC CN	8.9	36.03	39 59 32	1.3	1731	34.1	0.34	23.74	
Boulder		CO	188.9	BLED1807	105 09 10	-4	1.5	Boulder Community B/cst. A			
202A	KLHV.C	CP DEX	2.0	91.29	40 29 36	0.008	2075	32.2	42.20	29.87	
Fort Collins		CO	182.0	BPED19961112ME	105 10 52	441	50.1	Colorado Christian Univer			
201C2	KVOV.C	CP CX	262.2	187.50	39 25 22	0.65	3240	13.8	46.92	85.99	
Glenwood Springs		CO	82.2	BPED19970924MH	107 22 32	1117	47.8	Public Broadcasting Of Col			
204C1	KCME	LIC CY	163.3	107.45	38 44 40	12	2918	26.4	74.24	28.98	
Manitou Springs		CO	343.3	BLED19990203KA	104 51 41	810	1.5	Cheyenne Mountain Public B			
201A	970507	APP CN	11.9	156.81	41 03 09	0.9	1950	34.9	60.77	40.92	
Cheyenne		WY	191.9	BPED19970507MA	104 49 53	112	96.6	American Family Associatio			
201C3	KTPL.C	CP VX	174.3	192.68	37 56 40	10	2579	19.1	50.44	81.89	
Pueblo		CO	354.3	BPED19950411MA	104 59 56	319	59.4	Educational Communications			
202C1	KTPL.A	APP CX	174.3	192.68	37 56 40	65	2593	19.1	71.05	93.99	
Pueblo		CO	354.3	BMPED20030509ACI	104 59 56	333	28.2	Educational Communications			
203A	980122	APP DCN	270.0	100.09	39 39 57	0.378	2284	8.2	90.57	90.75	
Vail		CO	90.0	BPED19980122MA	106 23 04	-1097	1.5	Broadcasting For The Chall			
203A	970714	APP CN	268.2	105.50	39 38 05	1.5	3002	8.2	95.06	75.18	
Vail		CO	88.2	BPED19970714MB	106 26 47	211	1.5	Public Broadcasting Of Col			
203A	980123	APP CN	268.2	105.50	39 38 05	1.9	2979	8.2	94.93	75.22	
Vail		CO	88.2	BPED19980123MO	106 26 47	188	1.5	Denver Ed Broadcasting Inc			
06-2E	KRMATV	CP DCY	23.8	0.24	39 40 25	0	2363	228.3	To Grd B=	-106.05	
Denver		CO	203.8	BPET19990107KE	105 13 01	21	290.5	Rocky Mountain Public Broa			

\*\*\*Affixed to 'IN' or 'Out' values = site inside protected contour.  
ERP and HAAT are on direct line to and from reference station.



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Exhibit 15-A

Lakewood, CO

## KFDN.P vs. KGNU

EMF  
10-27-2003 30 Sec. Terrain Data

KFDN.P  
Channel = 201A  
Max ERP = 0.43 kW  
RCAMSL = 2348 M  
N. Lat = 394018  
W. Lng = 1051305

KGNU BLED1807  
Channel = 203A  
Max ERP = 1.3 kW  
RCAMSL = 1731 M  
N. Lat = 39 59 32  
W. Lng = 105 09 10

Protected  
60 dBu

Interfering  
100 dBu

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
005.0	000.4300	0482.5	032.5	220.4	001.3000	-0075.0	004.2	75.9
006.0	000.4300	0489.8	032.8	215.7	001.3000	-0068.4	003.7	78.4
007.0	000.4300	0498.5	033.1	209.6	001.3000	-0060.0	003.1	81.3
008.0	000.4300	0511.0	033.7	201.4	001.3000	-0037.6	002.4	85.9
009.0	000.4300	0521.5	034.1	187.2	001.3000	0003.2	001.9	90.0
010.0	000.4300	0530.2	034.4	166.4	001.3000	0057.6	001.7	97.8
011.0	000.4300	0536.5	034.7	145.6	001.3000	0099.1	001.8	99.3
012.0	000.4300	0541.7	034.9	130.5	001.3000	0109.7	002.2	97.2
013.0	000.4300	0546.8	035.1	120.6	001.3000	0120.7	002.7	94.7
014.0	000.4300	0551.8	035.3	114.2	001.3000	0127.0	003.3	92.2
015.0	000.4300	0555.6	035.5	110.6	001.3000	0129.1	003.8	89.8
016.0	000.4300	0558.3	035.6	108.6	001.3000	0129.9	004.5	87.6
017.0	000.4300	0560.4	035.6	107.5	001.3000	0130.1	005.1	85.6
018.0	000.4300	0562.1	035.7	106.9	001.3000	0130.1	005.7	83.8
019.0	000.4300	0563.4	035.7	106.6	001.3000	0130.1	006.3	82.0
020.0	000.4300	0564.6	035.8	106.5	001.3000	0130.1	006.9	80.3
021.0	000.4300	0565.5	035.8	106.6	001.3000	0130.1	007.6	78.7
022.0	000.4300	0566.1	035.8	106.8	001.3000	0130.1	008.2	77.4
023.0	000.4300	0566.7	035.9	107.1	001.3000	0130.1	008.8	76.1
024.0	000.4300	0567.6	035.9	107.3	001.3000	0130.1	009.4	74.9
025.0	000.4300	0568.8	035.9	107.5	001.3000	0130.0	010.1	73.8