

Educational Media Foundation

5700 West Oaks Boulevard ♦ Rocklin ♦ California ♦ 95765

Exhibit 18

Mesquite, NV

Channel Study

REFERENCE		CH# 207C - 89.3 MHz, Pwr= 97 kW, HAAT= 585.8 M, COR= 1173 M								DISPLAY DATES	
36 36 04.0 N.		Average Protected F(50-50)= 91.0 km								DATA	05-15-11
114 35 06.0 W.		Omni-directional								SEARCH	05-17-11
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)
207A	KAER	LIC	CX	38.6	42.1	36 53 48.0	0.740	84.9	30.6	-134.6*	-186.0
Mesquite			NV	218.8	BLED20110421ABM	114 17 23.0	239	1151	Educational Media Foundati		
205C	KNPR	LIC	CX	229.5	108.3	35 57 55.0	22.000	9.5	95.0	9.3	0.3
Las Vegas			NV	49.0	BLED20070424AAW	115 29 58.8	1190	2639	Nevada Public Radio		
209C2	KCNV	LIC	DC	229.6	108.3	35 57 57.0	0.550	1.6	55.2	17.2	40.2
Las Vegas			NV	49.0	BLED20031205AFP	115 30 03.0	1122	2570	Nevada Public Radio		
207B	KRSF	LIC	DHX	252.9	255.2	35 53 52.6	4.000	87.6	30.2	76.9	29.3
Ridgecrest			CA	71.3	BLED20110405AAW	117 17 18.3	451	1230	Radio 74 Internationale		
207C1	KUSL	LIC	CX	44.4	280.9	38 23 08.0	2.000	126.7	52.3	62.1	30.4
Richfield			UT	225.7	BLED20101210ALL	112 19 57.0	973	3577	Utah State University Of A		
207A	KAIH	LIC	VX	173.0	238.8	34 27 52.0	1.700	42.8	11.5	113.2	41.4
Lake Havasu City			AZ	353.2	BLED20070427ADO	114 16 02.0	-67	341	Educational Media Foundati		
209C2	KLYX	LIC	CX	0.3	143.5	37 53 38.0	0.200	1.0	39.3	49.0	90.0
Pioche			NV	180.3	BLED20101216ABW	114 34 40.0	1044	2871	Lincoln County School Dist		
260C	R10990«	DEL		74.0	101.5	36 50 49.0	100.000	6.9	33.0	47.5R	54.0M
St. George			UT	254.7		113 29 28.0	600	1965	Sanpete County Broad'g Co.		
260C	R10991«	ADD		74.0	101.5	36 50 49.0	100.000	6.9	33.0	47.5R	54.0M
Hurricane			UT	254.7		113 29 28.0	600	1965	Sanpete County Broad'g Co.		
260C	R11000«	ADD		74.0	101.5	36 50 49.0	100.000	6.9	33.0	47.5R	54.0M
Hurricane			UT	254.7		113 29 28.0	600	1965	Smoke & Mirrors, Llc Et. A		
260C	KONY«	LIC	C	74.0	101.5	36 50 49.0	90.000	6.9	33.0	47.5R	54.0M
St. George			UT	254.7	BMLH20020215ABJ	113 29 28.0	626	1991	Canyon Media Corporation		
210C1	KVIR	CP	DVX	185.7	150.4	35 15 08.0	9.100	4.7	65.7	67.7	73.5
Bullhead City			AZ	5.6	BPED20110224ABM	114 44 58.0	710	1507	Calvary Chapel Of Twin Fal		
210C1	KVIR	LIC	DVX	185.7	150.4	35 15 08.0	8.000	4.5	64.4	68.0	74.8
Bullhead City			AZ	5.6	BLED20090406AEQ	114 44 58.0	710	1507	Calvary Chapel Of Twin Fal		

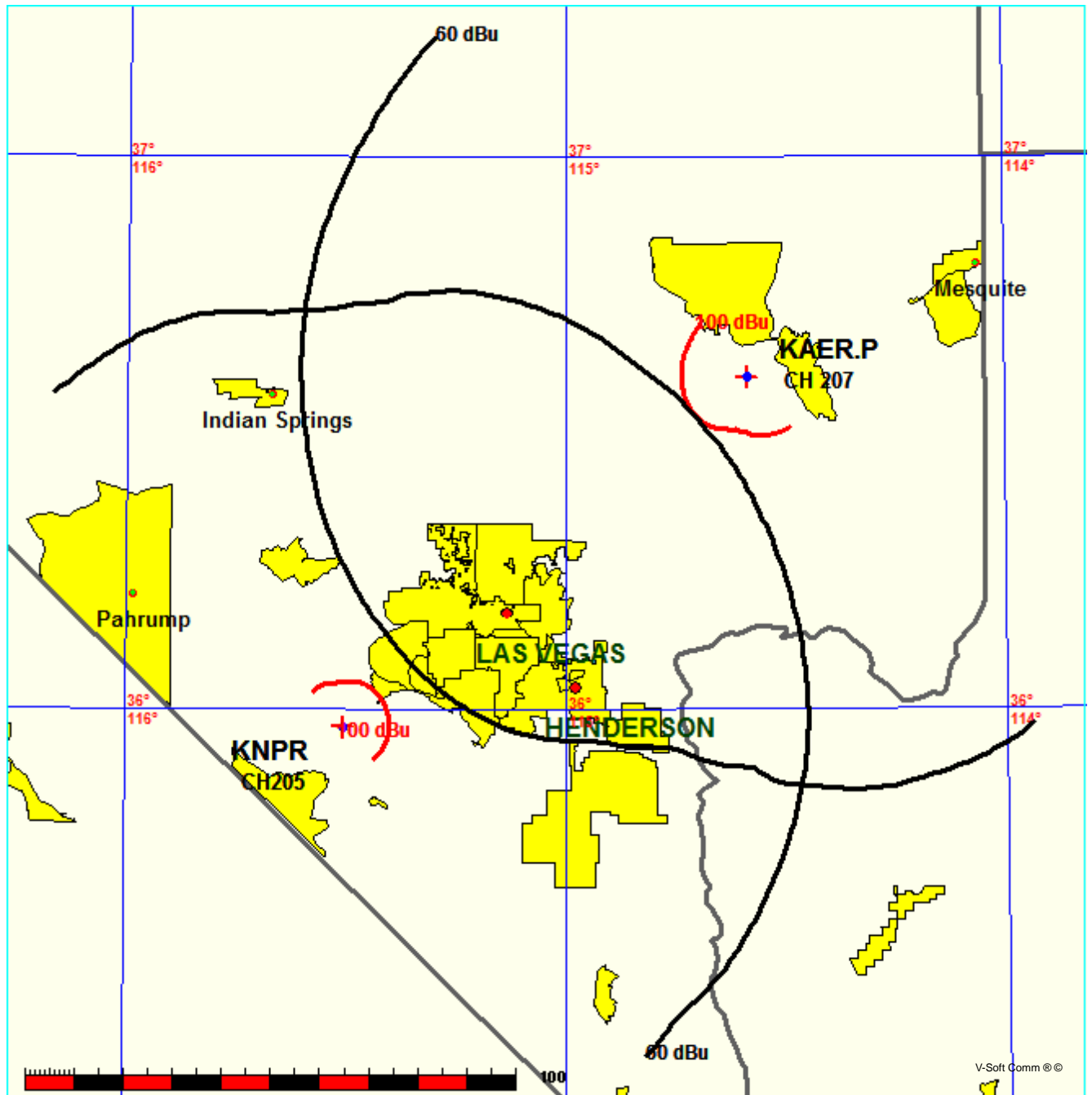
Terrain database is NGDC 30 SEC, R= 73.215 qualifying spacings or FCC minimum spacings in KM, M= Margin in KM
 Contour distances are on direct line to and from reference station. Reference Zone= - Zone 2, Co to 3rd adjacent.
 Ant Column: (D= DA Standard, Z= DA 73.215, N= Not DA 73.215, _= Omni), Polarization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

Exhibit 18-A

FMCommander Single Allocation Study - 05-17-2011 - NGDC 30 SEC
KAER.P's Overlaps (In= 9.31 km, Out= 0.28 km)

KAER.P CH 207 C
Lat= 36 36 04.0, Lng= 114 35 06.0
97.0 kW 585.8 M HAAT, 1173 M COR
Prot.= 60 dBu, Intef.= 100 dBu

KNPR CH 205 C BLED20070424AAW
Lat= 35 57 55.0, Lng= 115 29 58.8
22.0 kW 1190 M HAAT, 2639.4 M COR
Prot.= 60 dBu, Intef.= 100 dBu



Educational Media Foundation

5700 West Oaks Boulevard ♦ Rocklin ♦ California ♦ 95765

Exhibit 18-A

Mesquite, NV

KAER.P vs. KNPR

05-17-2011 Terrain Data: NGDC 30 SEC FMOver Analysis

KNPR BLED20070424AAW

KAER.P

Channel = 205C
Max ERP = 22 kW
RCAMSL = 2639.4 M
N. Lat. 35 57 55.0
W. Lng. 115 29 58.8
Protected
60 dBu

Channel = 207C
Max ERP = 97 kW
RCAMSL = 1173 M
N. Lat. 36 36 04.0
W. Lng. 114 35 06.0
Interfering
100 dBu

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)	IX (km)
035.0	022.0000	1345.1	094.0	283.2	097.0000	0585.7	028.6	88.89	
036.0	022.0000	1346.8	094.1	281.9	097.0000	0584.9	027.1	89.78	
037.0	022.0000	1348.0	094.1	280.4	097.0000	0584.3	025.6	90.71	
038.0	022.0000	1350.0	094.1	278.7	097.0000	0584.2	024.2	91.68	
039.0	022.0000	1353.0	094.1	276.7	097.0000	0584.2	022.7	92.67	
040.0	022.0000	1357.2	094.2	274.4	097.0000	0583.5	021.3	93.67	
041.0	022.0000	1363.8	094.3	271.8	097.0000	0582.0	020.0	94.65	
042.0	022.0000	1374.1	094.4	268.9	097.0000	0580.3	018.6	95.63	
043.0	022.0000	1386.9	094.6	265.6	097.0000	0578.5	017.4	96.59	
044.0	022.0000	1400.1	094.8	261.6	097.0000	0577.7	016.2	97.51	
045.0	022.0000	1411.0	094.9	256.9	097.0000	0578.3	015.1	98.36	
046.0	022.0000	1417.0	095.0	251.3	097.0000	0580.9	014.3	99.05	
047.0	022.0000	1418.3	095.0	245.0	097.0000	0576.5	013.6	99.62	
048.0	022.0000	1417.8	095.0	238.1	097.0000	0568.5	013.2	99.93	
049.0	022.0000	1419.3	095.0	231.0	097.0000	0557.2	013.1	99.98	
050.0	022.0000	1424.0	095.1	223.7	097.0000	0538.6	013.1	99.73	
051.0	022.0000	1430.2	095.2	216.5	097.0000	0509.5	013.3	99.11	
052.0	022.0000	1435.4	095.2	209.8	097.0000	0461.6	013.8	97.97	
053.0	022.0000	1438.5	095.3	203.7	097.0000	0411.2	014.4	96.24	
054.0	022.0000	1440.0	095.3	198.3	097.0000	0388.7	015.3	94.89	
055.0	022.0000	1441.2	095.3	193.6	097.0000	0364.7	016.4	93.46	
056.0	022.0000	1442.6	095.3	189.5	097.0000	0363.3	017.5	92.48	
057.0	022.0000	1443.7	095.3	186.0	097.0000	0379.4	018.7	91.87	
058.0	022.0000	1443.7	095.3	183.1	097.0000	0385.8	020.1	90.97	
059.0	022.0000	1442.3	095.3	180.6	097.0000	0387.9	021.5	89.94	
060.0	022.0000	1439.8	095.3	178.6	097.0000	0396.6	022.9	89.06	
061.0	022.0000	1437.0	095.2	176.8	097.0000	0418.5	024.4	88.52	
062.0	022.0000	1434.6	095.2	175.3	097.0000	0433.4	025.9	87.81	
063.0	022.0000	1432.7	095.2	174.0	097.0000	0441.4	027.5	86.98	
064.0	022.0000	1431.3	095.2	172.9	097.0000	0446.1	029.1	86.12	
065.0	022.0000	1430.2	095.2	172.0	097.0000	0450.1	030.6	85.32	