

# Educational Media Foundation

5700 West Oaks Boulevard ♦ Rocklin ♦ California ♦ 95765

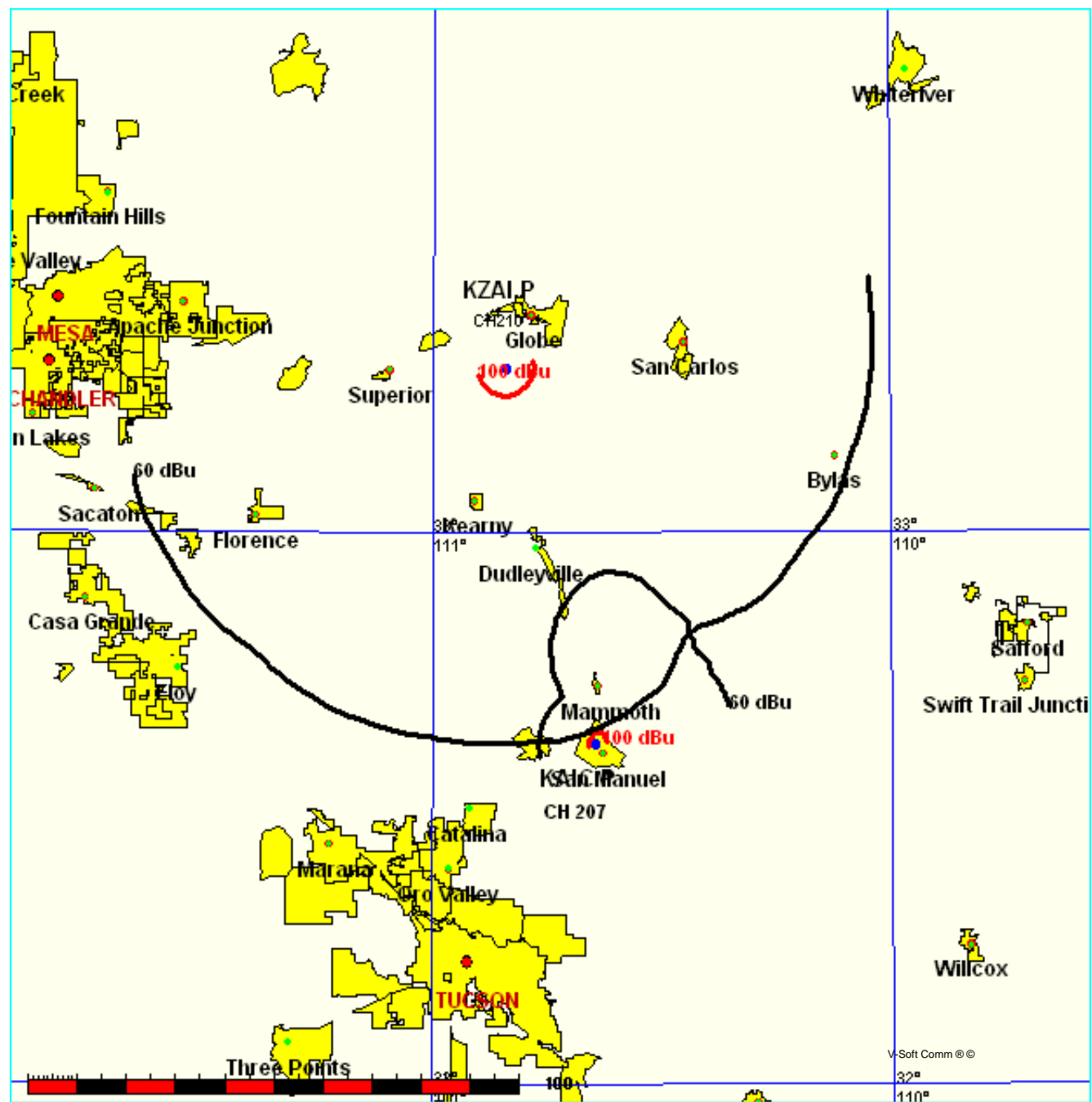
Exhibit 16

Mammoth, AZ

## Channel Study

REFERENCE		CH# 207A - 89.3 MHz, Pwr= 1.8 kW, HAAT= 12.0 M, COR= 1090 M						DISPLAY DATES			
32 36 56.0 N.		Average Protected F(50-50)= 11.7 km						DATA 06-10-08			
110 38 38.0 W.		Omni-directional						SEARCH 06-12-08			
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)
205A KAIC	LIC VX	0.0	0.00			32 36 56.0	1.800	2.5	34.3	-36.80*	-36.80*
Tucson	AZ	0.0	BLED20070124AKJ			110 38 38.0	8	1090	Educational Media Foundati		
06+2E KUATTV	LI HN	196.5	23.17			32 24 55.0	33.900	7.6	133.8	196.0R	-118.3M
Tucson	AZ	16.5	BLET20030103AAW			110 42 51.0	1101	2660	Arizona Board Of Regents/u		
208C AL0642	AL	191.3	145.27			31 19 52.0	100.000	142.1	92.0	-8.56	36.44
Nogales	SO	11.1				110 56 37.0	600	1875			
210C0 KZAI	CP DEX	346.4	77.96			33 17 55.0	16.000	7.8	83.1	41.64	-7.48*
Coolidge	AZ	166.3	BPED20061121ACF			110 50 28.0	922	2270	Educational Media Foundati		
*210C0 KZAI	LIC DEX	346.4	77.96			33 17 55.0	10.000	6.4	78.0	43.05	-2.39*
Coolidge	AZ	166.3	BLED20050413AAL			110 50 28.0	922	2270	Educational Media Foundati		
*210C0 KZAI.P	PRO DEX	346.4	77.96			33 17 55.0	7.900	5.7	75.4	43.71	0.18
Coolidge	AZ	166.3	BMPED20070803ACM			110 50 28.0	922	2270	Educational Media Foundati		
206A KUAZ-FM	LIC CX	217.4	55.99			32 12 53.0	1.600	43.6	28.9	0.67	10.26
Tucson	AZ	37.2	BLED20051028ABV			111 00 21.0	187	963	Arizona Board Of Regents F		
206C3 1227451	APP VX	115.2	78.79			32 18 44.0	8.000	25.3	17.1	24.09	17.37
Willcox	AZ	295.6	BNPED20071019AWW			109 53 10.0	1	1338	Diamond Mountain		
206C3 1214341	APP VX	114.2	107.07			32 13 01.0	0.120	51.2	33.4	26.26	29.05
Willcox	AZ	294.8	BNPED20071019BAY			109 36 26.0	946	2439	St. Paul Cultural Broadcas		
206A 1213938	APP CX	74.8	88.91			32 49 17.6	1.000	14.2	10.2	46.33	35.93
Salfort	AZ	255.3	BNPED20071022ACP			109 43 38.6	-83	930	Iglesia Jesucristo Es Mi R		
*204C1 KLKA.P	PRO D	322.7	62.31			33 03 39.0	83.000	1.6	12.8	48.99	47.89
Casa Grande	AZ	142.4				111 02 59.0	206	1013			
208C KBAQ	APP ZCY	301.4	154.82			33 19 58.0	30.000	93.5	62.8	49.64	75.21
Phoenix	AZ	120.6	BPED20060227AHT			112 03 53.0	474	841	Maricopa County Community		
204C2 1212412	APP VX	125.6	80.18			32 11 40.0	40.000	2.5	25.2	50.75	52.67
Willcox	AZ	305.9	BNPED20071017AEF			109 57 04.1	5	1360	Community Radio Foundation		
204C3 1215774	APP CX	120.8	84.22			32 13 32.0	25.000	2.3	22.7	53.73	59.20
Wilcox	AZ	301.2	BNPED20071022BGM			109 52 32.0	65	1370	Educational Broadcast Serv		
205C3 1214362	APP DVX	141.9	84.11			32 01 07.0	2.500	0.6	16.3	62.67	65.86
Tombstone	AZ	322.2	BNPED20071022APH			110 05 34.0	279	1708	Cochise Community Radio Co		
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: Mexico											

**\*\*Note:** This application is being filed contingent with applications for KLKA (FIN 82692) and KZAI (FIN 94226). The proposed facilities are marked with a "P" following the call sign.



## KAIC.P vs. KZAI.P

06-17-2008 NGDC 30 SEC Terrain Data

KZAI -P BMPED20070803ACM  
 Channel = 210C0  
 Max ERP = 7.9 kW  
 RCAMSL = 2270 M  
 N. Lat. 33 17 55.0  
 W. Lng. 110 50 28.0  
 Protected  
 60 dBu

KAI C. P  
 Channel = 207A  
 Max ERP = 1.8 kW  
 RCAMSL = 1090 M  
 N. Lat. 32 36 56.0  
 W. Lng. 110 38 38.0  
 Interfering  
 100 dBu

Azi muth (degrees)	ERP (kW)	HAAT (m)	Di st (km)	Azi muth (degrees)	ERP (kW)	HAAT (m)	Di st (km)	Actual (dBu)
155.0	007.9000	0797.1	072.1	048.3	001.8000	0178.2	016.0	70.38
156.0	007.9000	0803.9	072.3	047.6	001.8000	0178.3	014.8	71.34
157.0	007.9000	0812.6	072.5	046.9	001.8000	0179.2	013.5	72.95
158.0	007.9000	0826.3	072.9	046.5	001.8000	0179.9	012.2	74.85
159.0	007.9000	0843.1	073.4	046.3	001.8000	0180.4	010.8	77.02
160.0	007.9000	0860.1	073.9	045.7	001.8000	0182.1	009.5	79.45
161.0	007.9000	0873.1	074.2	044.0	001.8000	0189.6	008.1	82.25
162.0	007.9000	0882.1	074.4	040.7	001.8000	0197.6	006.9	85.26
163.0	007.9000	0888.7	074.6	035.2	001.8000	0227.6	005.7	89.17
164.0	007.9000	0897.9	074.8	027.2	001.8000	0234.7	004.6	92.30
165.0	007.9000	0910.2	075.1	015.0	001.8000	0276.8	003.6	95.99
166.0	007.9000	0923.0	075.3	354.9	001.8000	0244.1	002.9	98.29
167.0	007.9000	0934.9	075.6	328.0	001.8000	0052.9	002.8	89.85
168.0	007.9000	0944.4	075.8	304.7	001.8000	-0043.2	003.3	81.59
169.0	007.9000	0950.8	075.9	290.5	001.8000	-0113.1	004.3	77.15
170.0	007.9000	0956.0	076.0	282.3	001.8000	-0142.6	005.4	73.23

Exhibit 16-B

FMCommander Single Allocation Study  
06-17-2008

KAIC.P CH 207 A  
1.8 kW 1090 M COR  
Prot. = 60 dBu  
Intef. = 54 dBu

KUAZ-FM CH 206 A BLED20051028ABV  
1.6 kW, 963 M COR  
Prot. = 60 dBu  
Intef. = 54 dBu

