

# Educational Media Foundation

5700 West Oaks Boulevard ♦ Rocklin ♦ California ♦ 95765

Exhibit 13

Spring Valley, NV

## Channel Study

REFERENCE		CH# 236D - 95.1 MHz, Pwr= 0.099 kW, HAAT= 62.9 M, COR= 755 M						DISPLAY DATES			
36 07 45.0 N.		Average Protected F(50-50)= 8.2 km						DATA 05-07-19			
115 11 25.0 W.		Omni-directional						SEARCH 05-07-19			
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*
238C Henderson	KWNR	LIC NV	CY	128.9 309.1	21.31 BLH19890629KB	36 00 31.0 115 00 22.0	100.000 354	12.1 1044	82.8 Citicasters Licenses, Inc.	-3.1	-62.2*
236D Spring Valley	K236BM!	LIC NV	C	0.0 0.0	0.00 BLFT20190412ABL	36 07 45.0 115 11 25.0	0.075	755	---Reference---		
234D Las Vegas	K234BS	LIC NV	DV	281.8 101.8	0.68 BLFT20091001ABH	36 07 49.5 115 11 51.8	0.250 -8	0.3 694	6.8 Ondas De Vida, Network, In	-5.2*	-6.8*
236A Pahrump	KNYE	LIC NV	CX	276.0 95.5	76.43 BLH20011120AAE	36 11 52.0 116 02 08.0	6.000 -28	68.3 840	15.8 Pahrump Radio, Inc.	2.5	42.2
235D North Las Vegas	K235CL	LIC NV	DV	336.3 156.3	20.11 BLFT20170112ABR	36 17 42.0 115 16 50.0	0.075	8.1 862	5.7 Hispanic Family Christian	4.3	3.4
235D Dolan Springs	K235CJ	LIC AZ	DV	116.8 297.0	32.94 BLFT20141106ADU	35 59 43.0 114 51 50.0	0.250	6.7 1099	3.9 Legacy Preservation Founda	12.8	8.9
233C Moapa	KXLI	LIC NV	HX	59.2 239.9	111.12 BLH20080229AAT	36 38 07.0 114 07 18.0	93.000 637	16.2 1755	100.1 Radio Activo Broadcasting	81.2	10.3
233D Sunrise Manor	KXLI-FM1	LIC NV	C	47.1 227.3	31.79 BMLFTB20110404AER	36 19 24.0 114 55 49.0	0.340 59	1.3 826	20.6 Radio Activo Broadcasting	17.5	10.5
233C Moapa	KXLI	RSV-A NV		59.2 239.9	111.12	36 38 07.0 114 07 18.0	100.000 600	16.3 1719	99.6 Radio Activo Broadcasting	81.1	10.8
235B1 Baker	KHRQ	LIC CA	ZCX	220.9 40.4	101.53 BLH20100812ACK	35 26 10.0 115 55 25.0	1.450 404	31.4 1371	24.8 The Drive Llc	64.5	67.2

Terrain database is FCC 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= West Zone, 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 restricted contour.

**Compliance with C.F.R. 74.1204**

The proposed FM Translator is located within the protected 60 dBu contour of second adjacent channel station KWNR, channel 238C, Henderson, NV. According to 74.1204(a)(3), in order to protect second and third adjacent facilities, the difference in dBu between the two facilities must not exceed 40dBu.

The proposed ERP for K236BM.P:	99 watts
The proposed COR for K236BM.P:	98 meters
KWNR F(50/50) contour at proposed site:	90.3 dBu
The F(50/10) contour of proposed K236BM.P	130.3 dBu

By taking into account the antenna vertical elevation pattern for the Jampro JLCP 2 bay, it has been determined that based on the height of the antenna, the signal is predicted to not reach the ground or any nearby occupied structure (see Exhibit 13-A1).

Therefore, EMF respectfully requests a waiver of C.F.R. 74.1204 based on no population within the area of predicted interference.

EXHIBIT 13 - A1  
74.1204(d) Showing  
K236BM.P  
Spring Valley, NV

ERP (kw): 0.099  
eight of Antenna above Ground (m): 98  
Translator's IX Contour: 130.3  
Antenna Type: JLCP-2BAY FULL WAVE

<u>Depression Angle</u> <u>from Horizon</u>	<u>Antenna</u> <u>Relative Field</u>	<u>ERP (kw)</u> <u>from the Antenna RF</u>	<u>Dist. To IX Contour (m)</u>	<u>Height IX Contour Above</u> <u>Ground (m)</u>
0	1.000	0.0990	21.3215	98.000
5	0.957	0.0907	20.4047	96.222
10	0.834	0.0689	17.7821	94.912
15	0.646	0.0413	13.7737	94.435
20	0.433	0.0186	9.2322	94.842
25	0.212	0.0044	4.5202	96.090
30	0.001	0.0000	0.0213	97.989
35	0.176	0.0031	3.7526	95.848
40	0.308	0.0094	6.5670	93.779
45	0.394	0.0154	8.4007	92.060
50	0.445	0.0196	9.4881	90.732
55	0.438	0.0190	9.3388	90.350
60	0.411	0.0167	8.7631	90.411
65	0.364	0.0131	7.7610	90.966
70	0.314	0.0098	6.6949	91.709
75	0.249	0.0061	5.3091	92.872
80	0.180	0.0032	3.8379	94.220
85	0.140	0.0019	2.9850	95.026
90	0.100	0.0010	2.1321	95.868

**Compliance with C.F.R. 74.1204**

The proposed FM Translator is located within the protected 60 dBu contour of second adjacent channel station K234BS, channel 234D, Las Vegas, NV. According to 74.1204(a)(3), in order to protect second and third adjacent facilities, the difference in dBu between the two facilities must not exceed 40dBu.

The proposed ERP for K236BM.P:	99 watts
The proposed COR for K236BM.P:	98 meters
K234BS F(50/50) contour at proposed site:	88.3 dBu
The F(50/10) contour of proposed K236BM.P	128.3 dBu

By taking into account the antenna vertical elevation pattern for the Jampro JLCP 2 bay, it has been determined that based on the height of the antenna, the signal is predicted to not reach the ground or any nearby occupied structure (see Exhibit 13-B1).

Therefore, EMF respectfully requests a waiver of C.F.R. 74.1204 based on no population within the area of predicted interference.

EXHIBIT 13 - B1  
74.1204(d) Showing  
K236BM.P  
Spring Valley, NV

ERP (kw): 0.099  
eight of Antenna above Ground (m): 98  
Translator's IX Contour: 128.3  
Antenna Type: JLCP-2BAY FULL WAVE

<u>Depression Angle</u> <u>from Horizon</u>	<u>Antenna</u> <u>Relative Field</u>	<u>ERP (kw)</u> <u>from the Antenna RF</u>	<u>Dist. To IX Contour (m)</u>	<u>Height IX Contour Above</u> <u>Ground (m)</u>
0	1.000	0.0990	26.8422	98.000
5	0.957	0.0907	25.6880	95.761
10	0.834	0.0689	22.3864	94.113
15	0.646	0.0413	17.3400	93.512
20	0.433	0.0186	11.6227	94.025
25	0.212	0.0044	5.6905	95.595
30	0.001	0.0000	0.0268	97.987
35	0.176	0.0031	4.7242	95.290
40	0.308	0.0094	8.2674	92.686
45	0.394	0.0154	10.5758	90.522
50	0.445	0.0196	11.9448	88.850
55	0.438	0.0190	11.7569	88.369
60	0.411	0.0167	11.0321	88.446
65	0.364	0.0131	9.7705	89.145
70	0.314	0.0098	8.4284	90.080
75	0.249	0.0061	6.6837	91.544
80	0.180	0.0032	4.8316	93.242
85	0.140	0.0019	3.7579	94.256
90	0.100	0.0010	2.6842	95.316