Educational Media Foundation

Exhibit 13

5700 West Oaks Boulevard ♦ Rocklin ♦ California ♦ 95765 **Spring Valley, NV**

Channel Study

REFERENCE CH# 236D - 95.1 MHz, Pwr= 0.075 kW, HAAT= 62.9 M, COR= 755 M DISPLAY DATES
36 07 45.0 N. Average Protected F(50-50)= 7.6 km DATA 02-27-19
115 11 25.0 W. Omni-directional SEARCH 02-27-19

CH CITY	CALL	TYPE STATE	ANT	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.	-2.3	-62.1*
236D Spring Valley	K236BM!	LIC NV	C	0.0 0.0	0.00 BLFT20150226AAP	36 07 45.0 115 11 25.0	0.099	755	---Reference--- Educational Media Foundati		
234D Las Vegas	@K234BS	APP DC NV		164.3 344.3	1.50 BPFT20140930ALO	36 06 58.1 115 11 08.7	0.050	0.5 800	9.5 Ondas De Vida, Network, In	-7.6*	-8.6*
234D Las Vegas	K234BS	LIC DV NV		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	-4.8*	-6.7*
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.	2.9	43.6
235D North Las Vegas	K235CL	LIC DV NV		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	4.8	4.1
235D Dolan Springs	K235CJ	LIC DV AZ		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	13.7	10.4
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	82.1	10.4
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	18.3	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	82.0	10.9
235B1 Baker	KHRQ	LIC ZCX CA		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	64.9	67.8

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.

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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 K234BS.P:	75 watts
The proposed COR for K234BS.P:	98 meters
KWNR F(50/50) contour at proposed site:	90.3 dBu
The F(50/10) contour of proposed K234BS.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): 0.075
eight of Antenna above Ground (m): 98
Translator's IX Contour: 130.3
Antenna Type: JLCP-2BAY FULL WAVE

Depression Angle from Horizon	Antenna Relative Field	ERP (kw) from the Antenna RF	Dist. To IX Contour (m)	Height IX Contour Above Ground (m)
0	1.000	0.0750	18.5580	98.000
5	0.957	0.0687	17.7600	96.452
10	0.834	0.0522	15.4774	95.312
15	0.646	0.0313	11.9885	94.897
20	0.433	0.0141	8.0356	95.252
25	0.212	0.0034	3.9343	96.337
30	0.001	0.0000	0.0186	97.991
35	0.176	0.0023	3.2662	96.127
40	0.308	0.0071	5.7159	94.326
45	0.394	0.0116	7.3118	92.830
50	0.445	0.0149	8.2583	91.674
55	0.438	0.0144	8.1284	91.342
60	0.411	0.0127	7.6273	91.395
65	0.364	0.0099	6.7551	91.878
70	0.314	0.0074	5.8272	92.524
75	0.249	0.0047	4.6209	93.537
80	0.180	0.0024	3.3404	94.710
85	0.140	0.0015	2.5981	95.412
90	0.100	0.0008	1.8558	96.144

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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. K234BS has both a license and application to consider. The facility that has the largest interfering contour was considered for this study.

The proposed ERP for K236BM.P:	75 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): 0.075
eight of Antenna above Ground (m): 98
Translator's IX Contour: 128.3
Antenna Type: JLCP-2BAY FULL WAVE

Depression Angle from Horizon	Antenna Relative Field	ERP (kw) from the Antenna RF	Dist. To IX Contour (m)	Height IX Contour Above Ground (m)
0	1.000	0.0750	23.3631	98.000
5	0.957	0.0687	22.3585	96.051
10	0.834	0.0522	19.4848	94.616
15	0.646	0.0313	15.0926	94.094
20	0.433	0.0141	10.1162	94.540
25	0.212	0.0034	4.9530	95.907
30	0.001	0.0000	0.0234	97.988
35	0.176	0.0023	4.1119	95.642
40	0.308	0.0071	7.1958	93.375
45	0.394	0.0116	9.2051	91.491
50	0.445	0.0149	10.3966	90.036
55	0.438	0.0144	10.2330	89.618
60	0.411	0.0127	9.6022	89.684
65	0.364	0.0099	8.5042	90.293
70	0.314	0.0074	7.3360	91.106
75	0.249	0.0047	5.8174	92.381
80	0.180	0.0024	4.2054	93.859
85	0.140	0.0015	3.2708	94.742
90	0.100	0.0008	2.3363	95.664