

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= 62.7 M, COR= 755 M						DISPLAY DATES			
36 07 44.8 N.		Average Protected F(50-50)= 8.1 km						DATA 06-02-22			
115 11 28.4 W.		Omni-directional						SEARCH 06-02-22			
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)
238C	KWNR	LIC	CN	128.9	21.31	36 00 30.90	100.000	12.1	82.8	-3.1<	-62.2*<
Henderson			NV	309.0	BLH19890629KB	115 00 24.90	354	1044	Ihm Licenses, LLC		
236D	K236BM!	CP	CN	72.8	0.01	36 07 44.90	0.099		---Reference---		
Spring Valley			NV	252.8	BPFT20190513AAQ	115 11 28.00		755	Educational Media Foundati		
236D	K236BM!	LIC	CN	72.8	0.01	36 07 44.90	0.075		---Reference---		
Spring Valley			NV	252.8	BLFT20190412ABL	115 11 28.00		755	Educational Media Foundati		
234D	K234BS	LIC	DVN	282.0	0.67	36 07 49.30	0.250	0.3	6.8	-5.2*<	-6.8*<
Las Vegas			NV	102.0	BLFT20091001ABH	115 11 54.70		694	Ondas De Vida, Inc.		
235D	K235CJ	CP	DCN	116.8	32.95	35 59 42.90	0.010	16.1	10.7	3.5	2.1
Dolan Springs			AZ	297.0	BPFT20190730AAC	114 51 53.00		1099	Legacy Preservation Founda		
236A	KNYE	LIC	CN	276.0	76.42	36 11 51.80	6.000	68.3	15.8	2.5	42.2
Pahrump			NV	95.5	BLH20011120AAE	116 02 11.00	-28	840	Pahrump Radio, Inc.		
235D	K235CL	LIC	DVN	336.3	20.11	36 17 41.90	0.075	8.1	5.7	4.3	3.4
North Las Vegas			NV	156.3	BLFT20170112ABR	115 16 53.00		862	Hispanic Family Christian		
235D	K235CJ	LIC	DVN	116.8	32.95	35 59 42.90	0.250	6.7	3.9	12.8	8.9
Dolan Springs			AZ	297.0	BLFT20141106ADU	114 51 52.90		1099	Legacy Preservation Founda		
233C	KXLI	LIC	HN	59.2	111.13	36 38 06.90	93.000	16.2	100.1	81.3	10.4
Moapa			NV	239.9	BLH20080229AAT	114 07 20.80	637	1755	Radio Activo Broadcasting		
233D	KXLI-FM1	LIC	CN	47.1	31.79	36 19 23.90	0.340	1.3	20.6	17.5	10.5
Sunrise Manor			NV	227.3	BMLFTB20110404AER	114 55 52.00	59	826	Radio Activo Broadcasting		
233C	KXLI	RSV-A		59.2	111.13	36 38 06.91	100.000	16.1	98.9	81.3	11.6
Moapa			NV	239.9		114 07 20.88	600	1700	From CDBS		
235B1	KHRQ	LIC	ZCN	220.9	101.52	35 26 09.90	1.450	31.4	24.8	64.5	67.2
Baker			CA	40.4	BLH20100812ACK	115 55 28.00	404	1371	The Drive LLC		
236L1	KRBV-LP	LIC	CN	52.7	119.02	36 46 23.00	0.100			87.0	69.0
Bunkerville			NV	233.3	BLL20170131AES	114 07 45.90	-126	489	Bunkerville Volunteer Fire		

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.

Call signs with exclamation marks need not be protected.

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.

< = Contour Overlap

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5700 West Oaks Boulevard
Rocklin, CA 95765

Exhibit 13-A
Spring Valley, NV

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
Spring Valley, NV

ERP (kw): 0.99
Height 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	0.9900	67.4245	98.000
5	0.957	0.9067	64.5252	92.376
10	0.834	0.6886	56.2320	88.235
15	0.646	0.4131	43.5562	86.727
20	0.433	0.1856	29.1948	88.015
25	0.212	0.0445	14.2940	91.959
30	0.001	0.0000	0.0674	97.966
35	0.176	0.0307	11.8667	91.194
40	0.308	0.0939	20.7667	84.651
45	0.394	0.1537	26.5652	79.216
50	0.445	0.1960	30.0039	75.016
55	0.438	0.1899	29.5319	73.809
60	0.411	0.1672	27.7115	74.001
65	0.364	0.1312	24.5425	75.757
70	0.314	0.0976	21.1713	78.105
75	0.249	0.0614	16.7887	81.783
80	0.180	0.0321	12.1364	86.048
85	0.140	0.0194	9.4394	88.596
90	0.100	0.0099	6.7424	91.258

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:	99 watts
The proposed COR for K236BM.P:	98 meters
K234BS F(50/50) contour at proposed site:	91.6 dBu
The F(50/10) contour of proposed K236BM.P	131.6 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
Spring Valley, NV

ERP (kw): 0.99
Height of Antenna above Ground (m): 98
Translator's IX Contour: 131.6
Antenna Type: JLCP-2BAY FULL WAVE

<u>Depression Angle from Horizon</u>	<u>Antenna Relative Field</u>	<u>ERP (kw) from the Antenna RF</u>	<u>Dist. To IX Contour (m)</u>	<u>Height IX Contour Above Ground (m)</u>
0	1.000	0.9900	58.0521	98.000
5	0.957	0.9067	55.5558	93.158
10	0.834	0.6886	48.4154	89.593
15	0.646	0.4131	37.5016	88.294
20	0.433	0.1856	25.1365	89.403
25	0.212	0.0445	12.3070	92.799
30	0.001	0.0000	0.0581	97.971
35	0.176	0.0307	10.2172	92.140
40	0.308	0.0939	17.8800	86.507
45	0.394	0.1537	22.8725	81.827
50	0.445	0.1960	25.8332	78.211
55	0.438	0.1899	25.4268	77.172
60	0.411	0.1672	23.8594	77.337
65	0.364	0.1312	21.1309	78.849
70	0.314	0.0976	18.2283	80.871
75	0.249	0.0614	14.4550	84.038
80	0.180	0.0321	10.4494	87.709
85	0.140	0.0194	8.1273	89.904
90	0.100	0.0099	5.8052	92.195