

### Channel Study

CH CITY	CALL	TYPE	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	CN NV	128.9 309.0	21.31 BLH19890629KB	36 00 30.90 115 00 24.90	100.000 354	12.1 1044	82.8 Ihm Licenses, LLC	-3.1<	-62.2*<
236D Spring Valley	K236BM!	CP	CN NV	72.8 252.8	0.01 BFFT20190513AAQ	36 07 44.90 115 11 28.00	0.099	755	---Reference--- Educational Media Foundati		
236D Spring Valley	K236BM!	LIC	CN NV	72.8 252.8	0.01 BLFT20190412ABL	36 07 44.90 115 11 28.00	0.075	755	---Reference--- Educational Media Foundati		
234D Las Vegas	K234BS	LIC	DVN NV	282.0 102.0	0.67 BLFT20091001ABH	36 07 49.30 115 11 54.70	0.250	0.3 694	6.8 Ondas De Vida, Inc.	-5.2*<	-6.8*<
235D Dolan Springs	K235CJ	CP	DCN AZ	116.8 297.0	32.95 BFPT20190730AAC	35 59 42.90 114 51 53.00	0.010	16.1 1099	10.7 Legacy Preservation Founda	3.5	2.1
236A Pahump	KNYE	LIC	CN NV	276.0 95.5	76.42 BLH20011120AAE	36 11 51.80 116 02 11.00	6.000 -28	68.3 840	15.8 Pahump Radio, Inc.	2.5	42.2
235D North Las Vegas	K235CL	LIC	DVN NV	336.3 156.3	20.11 BLFT20170112ABR	36 17 41.90 115 16 53.00	0.075	8.1 862	5.7 Hispanic Family Christian	4.3	3.4
235D Dolan Springs	K235CJ	LIC	DVN AZ	116.8 297.0	32.95 BLFT20141106ADU	35 59 42.90 114 51 52.90	0.250	6.7 1099	3.9 Legacy Preservation Founda	12.8	8.9
233C Moapa	KXLI	LIC	HN NV	59.2 239.9	111.13 BLH20080229AAT	36 38 06.90 114 07 20.80	93.000 637	16.2 1755	100.1 Radio Activo Broadcasting	81.3	10.4
233D Sunrise Manor	KXLI-FM1	LIC	CN NV	47.1 227.3	31.79 BMLFTB20110404AER	36 19 23.90 114 55 52.00	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	111.13	36 38 06.91 114 07 20.88	100.000 600	16.1 1700	98.9 From CDBS	81.3	11.6
235B1 Baker	KHRQ	LIC	ZCN CA	220.9 40.4	101.52 BLH20100812ACK	35 26 09.90 115 55 28.00	1.450 404	31.4 1371	24.8 The Drive LLC	64.5	67.2
236L1 Bunkerville	KRBV-LP	LIC	CN NV	52.7 233.3	119.02 BLL20170131AES	36 46 23.00 114 07 45.90	0.100 -126	489		87.0	69.0

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

**Educational Media Foundation**  
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 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	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