

October 27, 2015

FIN: 142837

Exhibit 13

Channel Study

The FCC F(50/50) 60dBu contour of the license and proposed facility of K270BA overlap.

2nd adjacent KLNZ is addressed in Exhibit 13 - A.

REFERENCE		CH# 276D - 103.1 MHz, Pwr= 0.12 kW, HAAT= -71.9 M, COR= 684 M								DISPLAY DATES	
33 57 56.0 N.		Average Protected F(50-50)= 5.9 km								DATA 10-27-15	
112 45 02.0 W.		Omni-directional								SEARCH 10-27-15	
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)	
278C	KLNZ	LIC	CY	159.2	44.36	33 35 33.0	62.000	12.7	91.6	25.8	-48.1*
Glendale			AZ	339.3	BMLH19980406KB	112 34 49.0	740	1269	Entravision Holdings, Llc		
273C	KNIX-FM	LIC	CY	137.8	94.75	33 19 58.0	100.000	12.8	88.2	74.8	5.8
Phoenix			AZ	318.1	BMLH19870814KA	112 03 53.0	494	853	Cc Licenses, Llc		
276L1	KSCW-LP	CP		132.5	49.50	33 39 50.1	0.100			23.3	18.5
Sun City West			AZ	312.8	BMPL20150601AER	112 21 22.7	-1	395	Recreation Centers Of Sun		
276C	KCDX	CP	DCX	128.0	212.03	32 46 44.0	42.000	182.9	86.0	21.5	100.4
Florence			AZ	309.0	BPH20130422ADM	110 57 46.0	614	1712	Desert West Air Ranchers C		
275C	KQST	LIC	C	45.3	159.35	34 58 05.0	100.000	131.8	88.2	21.6	62.8
Sedona			AZ	226.0	BLH20060307BHN	111 30 29.0	451	2629	Yavapai Broadcasting Corpo		
276D	K276FQ	LIC	C	21.9	69.21	34 32 34.0	0.140	20.4	6.1	42.9	43.5
Rancho Vista			AZ	202.1	BLFT20150730ABX	112 28 06.0		1653	Catz & Dawgs, Llc		
276C1	KCDX	LIC	NCN	112.2	191.67	33 17 55.0	2.700	136.3	58.6	49.4	113.5
Florence			AZ	293.3	BLH19990702KE	110 50 28.0	932	2280	Desert West Air Ranchers C		

Terrain database is 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.
 All separation margins (if shown) include rounding. 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.
 Reference station has protected zone issue: Mexico

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Exhibit 13 - A

Compliance with C.F.R. 74.1204

The proposed FM Translator is located within the protected 60 dBu contour of second adjacent channel station KLNZ, channel 278C, Glendale, Arizona. 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 K270BA:	120 watts
The proposed COR for K270BA:	23 meters
KLNZ F(50/50) contour at proposed site:	80 dBu
The F(50/10) contour of proposed K270BA	120 dBu

By taking into account the vertical elevation pattern for the Nicom BKG77 (half wave spaced) antenna, it has been determined that the predicted interfering contour will not actually reach the ground (see Exhibit 13 A-1).

Therefore, EMF respectfully requests a waiver of C.F.R. 74.1204.

EXHIBIT 13 - A1
74.1204(d) Showing
K270BA
WICKENBURG, AZ

ERP (kw): 0.12
Height of Antenna above Ground (m): 23
Translator's IX Contour: 120
Antenna Type: BKG 2B HW

<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	0.1200	76.8406	23.000
5	0.988	0.1171	75.9185	16.383
10	0.952	0.1088	73.1522	10.297
15	0.881	0.0931	67.6965	5.479
20	0.791	0.0751	60.7809	2.212
25	0.686	0.0565	52.7126	0.723
30	0.577	0.0400	44.3370	0.831
35	0.463	0.0257	35.5772	2.594
40	0.354	0.0150	27.2016	5.515
45	0.256	0.0079	19.6712	9.090
50	0.174	0.0036	13.3703	12.758
55	0.104	0.0013	7.9914	16.454
60	0.061	0.0004	4.6873	18.941
65	0.028	0.0001	2.1515	21.050
70	0.007	0.0000	0.5379	22.495
75	0.008	0.0000	0.6147	22.406
80	0.009	0.0000	0.6916	22.319
85	0.009	0.0000	0.6916	22.311
90	0.009	0.0000	0.6916	22.308