

**K280DD  
AMENDMENT TO BPFT-20130328ARY  
REQUESTING MINOR CHANGES**

This application seeks a move for K280DD as a fill in translator for station KHYZ on channel 259B at Mountain Pass, CA (facility # 34555). This translator is now licensed at a site in Clark County, NV in the Las Vegas ARB metro radio market. This 60 dBu contour overlapping move is proposed to another site in Clark County in the same metro market. Such moves are currently permitted by Commission processing policy and practice.

**Allocation discussion:**

All exhibits utilize the USGS 3 second terrain database.

- E1 Channel study
- E1A KFRH and KISF interference plot
- E1C Aerial view of K280DD interference contour
- E1C DA
- E2 60 dBu and 54 dBu plots
- E3 TowerAir study

A channel study is included as E1 and interference plots as E1A demonstrating compliance with §74.1204. A plot of the proposed K280BB and KHYZ 54 dBu contours is provided as E2 showing that it is entirely contained within the KHYZ 54 dBu and that the proposed 60 dBu overlaps the licensed 60 dBu.

The K280DD facility will be located inside the protected contour of second adjacent channel stations KISF on 278C and KFRH on 282C. Therefore, an interference analysis has been conducted based on the U/D ratio of +40 dB at the proposed site. The KISF (50:50) contour at the proposed site is 78.2 dBu and the (50:10) interference contour is 118.2 dBu. The WNSH (50:50) contour at the proposed site is 72.3 dBu and the resulting interference contour is 112.3 dBu. Both contours are plotted on an aerial photograph in exhibit E1b which clearly shows that there is no populated area or major highway encompassed by either. Based on this showing, a waiver of Section 74.1204 is requested in accordance with *Living Way Ministries, Inc.* (FCC 08-242).

**60 dBu and HAAT tabulation:**


N. Lat. = 35-42-06    W. Lng. = 114-53-24  
HAAT and Distance to Contour,  
FCC, FM 2-10 Mi, 51 pts Method - USGS 03 SEC

Azi.	AV EL	HAAT	dBk	60-F5
-----				
000	858.9	641.1	-10.60	25.78
030	947.1	552.9	-16.19	17.04
060	847.0	653.0	-20.00	14.31
090	677.6	822.4	-20.00	15.79
120	878.1	621.9	-16.19	18.31
150	1223.3	276.7	-10.60	16.63
180	1011.1	488.9	-6.02	28.61
210	961.0	539.0	-6.02	30.35
240	930.9	569.1	-6.02	31.33
270	773.1	726.9	-6.02	35.99
300	671.3	828.7	-6.02	38.77
330	689.3	810.7	-6.02	38.31

Ave El= 872.39 M    HAAT= 627.61 M    AMSL= 1500 M

**RF Exposure Calculation:**

The proposed facility will utilize a PSI FMR single bay, circularly polarized antenna with a center of radiation at eight (8) meters AGL. The RF contribution of the proposed translator was calculated using FMMODEL to be 107.5  $\mu$ Watts/cm<sup>2</sup> or 10.75% of the maximum permissible 1,000 microwatts/cm<sup>2</sup> exposure for occupational areas. The proposed translator is the only broadcast facility that will be located at the restricted access communications site and clearly complies with Commission RF radiation limits.

  
Charles M. Anderson, May 30, 2013

## E1 CHANNEL STUDY

REFERENCE 35 42 06.0 N. 114 53 24.0 W.		CH# 280D - 103.9 MHz, Pwr= 0.25 kW DA, HAAT= 622.3 M, COR= 1500 M Average Protected F(50-50)= 32.61 km Standard Directional						DISPLAY DATES DATA 05-30-13 SEARCH 05-30-13		
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*
280D Riviera, Etc.	K280DD	APP DC_ AZ	333.0 152.9	30.44 BPFT20130328ARY	35 56 45.0 115 02 37.0	0.250	38.5 1367	8.8 Steven M. Greeley	-45.2*	-80.7
280B Essex	R10995	DEL ____ CA	196.7 16.5	112.13	34 44 01.0 115 14 39.0	50.000 150	146.6 839	72.1 Smoke & Mirrors, Llc Et. A	-64.9*	-70.6
280B Essex	950921MK	VAC __N CA	196.9 16.7	111.87	34 44 12.0 115 14 48.0	50.000 150	145.9 837	71.7	-64.5*	-70.4(1)
280B Essex	R11472	ADD ____ CA	190.1 10.0	92.52	34 52 50.0 115 04 06.0	50.000 150	127.6 938	53.6 Smoke & Mirrors, Llc Et. A	-65.1*	-70.3
280D Riviera, Etc.	K280DD	LIC ?HN AZ	165.1 345.2	52.23 BLFT19880123TA	35 14 48.0 114 44 32.0	0.155 679	81.9 1468	25.9 Steven M. Greeley	-56.0*	-58.0
278C Las Vegas	KISF	LIC _CN NV	343.0 163.0	35.56 BLH19890310KD	36 00 29.0 115 00 20.0	100.000 353	10.4 1042	73.7 Univision Radio License Co	-8.7	-39.1*(2)
282C North Las Vegas	KFRH	LIC _CN NV	298.3 118.0	62.62 BLH19961122KB	35 58 02.0 115 30 06.0	24.500 1128	9.8 2593	92.8 Silver State Broadcasting	14.2	-31.3*(2)
280C Toquerville	R15376	DEL ____ UT	39.3 220.3	224.45	37 15 12.0 113 17 00.0	100.000 600	222.8 1920	105.2 Jer Licenses, Llc	-17.9	65.1
280C Toquerville	AL9633	VAC __N UT	39.3 220.3	224.45 RM9603	37 15 12.0 113 17 00.0	100.000 600	222.8 1920	105.2 Mountain West Broadcasting	-17.9	65.1
280D Kingman	K280EH	LIC DCN AZ	125.4 305.9	112.34 BLFT19960111TP	35 06 48.0 113 53 00.0	0.010 892	60.5 2348	15.6 Steven M. Greeley	32.2	34.0
226C Las Vegas	KPLV«	LIC _CN NV	298.3 118.0	62.62 BLH19941228KD	35 58 02.0 115 30 06.0	24.000 1141	0.0 2606	0.0 Citicasters Licenses, Inc.	29.0R	34.1M

Terrain database is USGS 03 SEC , R= 73.215 qualifying spacings or FCC minimum Spacings in KM, M= Margin in KM  
In & Out distances between contours are shown at closest points. Reference zone= West Zone, Co to 3rd adjacent.  
All separation margins (if shown) include rounding  
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 protected contour.  
« = Station meets FCC minimum distance spacing for its class.

(1) Vacant allotment does not require protection.

(2) See E1A, E1B and technical report for disproof of interference.

**K280DD**

BLFT19880123TA

Latitude: 35-42-06 N

Longitude: 114-53-24 W

ERP: 0.25 kW

Channel: 280

Frequency: 103.9 MHz

AMSL Height: 1500.0 m

Elevation: 1492.0 m

Horiz. Pattern: Directional

**E1A****PROPOSED 112.3 DBU (50:10)****KISF 72.3 DBU (50:50)**

K280DD

**KFRH (50:50) 78.2 DBU****PROPOSED 118.2 DBU (50:10)**

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Scale 1:10,000

0 0.13 0.27 0.4 km

V-Soft Communications LLC ©

## E1B AERIAL PHOTOGRAPH OF INTERFERENCE CONTOURS



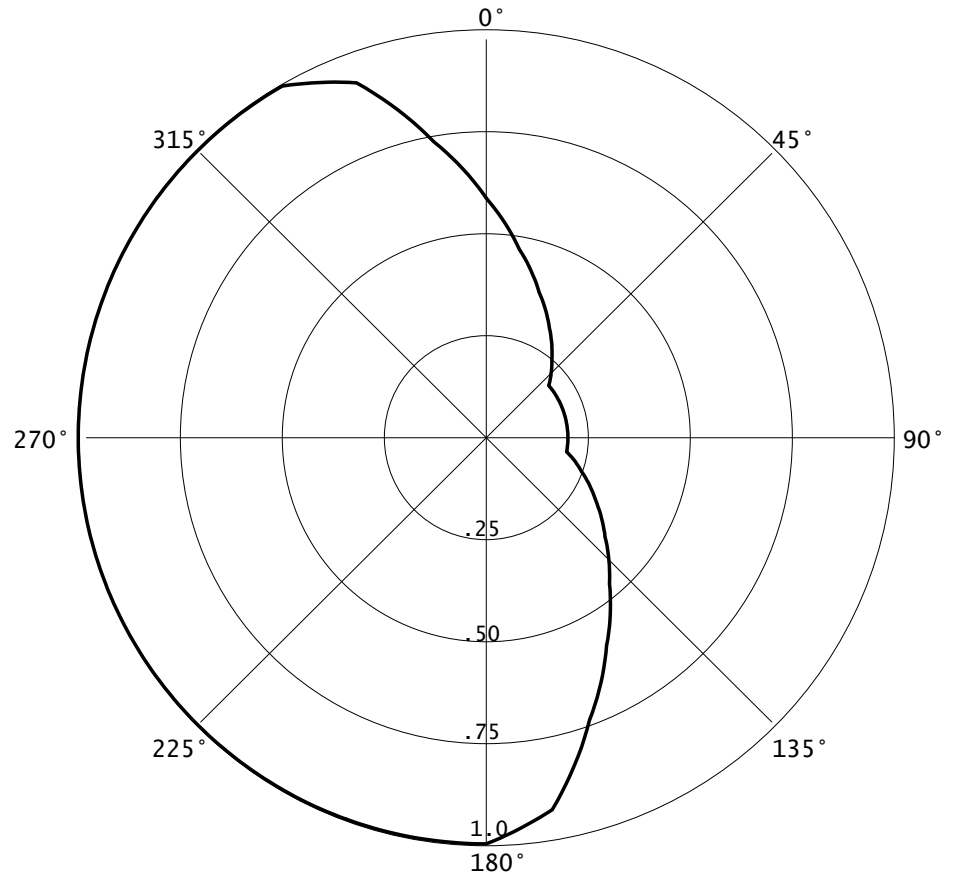
# E1C K280DD DA

05-30-2013

RMS(V)= .76

Graph is Relative Field

Azi	Field	dBk	kw
000	0.590	-10.604	0.087
010	0.470	-12.579	0.055
020	0.380	-14.425	0.036
030	0.310	-16.193	0.024
040	0.250	-18.062	0.016
050	0.200	-20.000	0.010
060	0.200	-20.000	0.010
070	0.200	-20.000	0.010
080	0.200	-20.000	0.010
090	0.200	-20.000	0.010
100	0.200	-20.000	0.010
110	0.250	-18.062	0.016
120	0.310	-16.193	0.024
130	0.380	-14.425	0.036
140	0.470	-12.579	0.055
150	0.590	-10.604	0.087
160	0.740	-08.636	0.137
170	0.930	-06.651	0.216
180	1.000	-06.021	0.250
190	1.000	-06.021	0.250
200	1.000	-06.021	0.250
210	1.000	-06.021	0.250
220	1.000	-06.021	0.250
230	1.000	-06.021	0.250
240	1.000	-06.021	0.250
250	1.000	-06.021	0.250
260	1.000	-06.021	0.250
270	1.000	-06.021	0.250
280	1.000	-06.021	0.250
290	1.000	-06.021	0.250
300	1.000	-06.021	0.250
310	1.000	-06.021	0.250
320	1.000	-06.021	0.250
330	1.000	-06.021	0.250
340	0.930	-06.651	0.216
350	0.740	-08.636	0.137



**K280DD**

BLFT19880123TA

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Longitude: 114-53-24 W

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Channel: 280

Frequency: 103.9 MHz

AMSL Height: 1500.0 m

Elevation: 1492.0 m

Horiz. Pattern: Directional

Vert. Pattern: No

Prop Model: None

**EXHIBIT E2**

Las Vegas

East Las Vegas

Henderson

Boulder City

**KHYZ 54 DBU**

K280DD

**PROPOSED 54 DBU  
IS CONTAINED WITHIN  
KHYZ 54 DBU****PROPOSED 60 DBU  
OVERLAPS LIC 60 DBU**

KHYZ

**K280DD LICENSED 60 DBU**

K280DD

Bullhead City

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Scale 1:750,000

0 10 20 30 km

V-Soft Communications LLC ©

## TOWAIR Determination Results

### \*\*\* NOTICE \*\*\*

TOWAIR's findings are not definitive or binding, and we cannot guarantee that the data in TOWAIR are fully current and accurate. In some instances, TOWAIR may yield results that differ from application of the criteria set out in 47 C.F.R. Section 17.7 and 14 C.F.R. Section 77.13. A positive finding by TOWAIR recommending notification should be given considerable weight. On the other hand, a finding by TOWAIR recommending either for or against notification is not conclusive. It is the responsibility of each ASR participant to exercise due diligence to determine if it must coordinate its structure with the FAA. TOWAIR is only one tool designed to assist ASR participants in exercising this due diligence, and further investigation may be necessary to determine if FAA coordination is appropriate.

#### DETERMINATION Results

**Structure does not require registration. There are no airports within 8 kilometers (5 miles) of the coordinates you provided.**

#### Your Specifications

##### NAD83 Coordinates

Latitude	35-42-06.0 north
Longitude	114-53-27.2 west

##### Measurements (Meters)

Overall Structure Height (AGL)	12
Support Structure Height (AGL)	0
Site Elevation (AMSL)	1492

##### Structure Type

LTOWER - Lattice Tower

#### [Tower Construction Notifications](#)

Notify Tribes and Historic Preservation Officers of your plans to build a tower.

CLOSE WINDOW