

Non-Interference Compliance
K288DR, Palm Springs, CA FAC# 72006
August 10, 2023

This exhibit demonstrates that the proposed facility complies with contour overlap and interference protection provisions in all of the applicable rule sections and that this application for a construction permit is in full compliance with 47 C.F.R. § 74.1204.

Let it be noted that should any actual real world interference occur, the applicant acknowledges that it will promptly suspend operation of this translator in accordance with 47 C.F.R. § 74.1203.

Page 2 of this exhibit is an explanation of the method used to demonstrate compliance with contour overlap and interference provisions based on 47 C.F.R. § 74.1204(d), which states:

[A]n application otherwise precluded by this section will be accepted if it can be demonstrated that no actual interference will occur due to intervening terrain, lack of population or such other factors as may be applicable.

Page 3 of this exhibit contains the adjacent channel study created with V-Soft, FM Commander which shows all co-channel, 1st adjacent, 2nd adjacent and 3rd adjacent to the proposal.

Page 5 of this exhibit is an overview contour non-interference map demonstrating co-channel protection to KXRS license, BLH-19881116KE.

Page 6 of this exhibit is an close-up contour non-interference map demonstrating co-channel protection to KXRS license, BLH-19881116KE.

Compliance with 47 C.F.R. § 74.1204(d)

All authorized second and third adjacent stations with which the proposed translator has contour overlap are tabulated below. Column four show the station's signal level at the proposed translator's tower site, and column five gives the minimum value within the entire standard interfering contour of the proposed translator (100 dBμ for most classes, 94 for class B, 97 for class B1). The minimum second or third adjacent F(50,50) contour within the proposed translator's standard interfering contour was used to calculate the proposed translator's actual "worst-case" interfering contour.

File Number	Callsign	Contour at Tower	Min. Contour
BMLED-20170103ABT	KXLB	126.0	122.9
BLH-19981105KC	KPLM	90.9	91.0
Minimum F(50,50) Contour of Adjacent Station within Proposed Translator's Standard Interfering Contour			91.0

FCC 02-244 at Section II.A.5 states that "when demonstrating that 'no actual interference will occur due to . . . other factors,' pursuant to Section 74.1204(d), an applicant may use the undesired-to-desired signal ratio method." The undesired-to-desired ratio for second and third adjacent stations required by § 74.1204(a) is 40 dB. Since the minimum protected contour strength within the proposed translator's standard interference contour is **91.0 dBμ**, this makes the proposed translator's worst-case interfering contour **131.0 dBμ**. By the free-space equation, this contour is calculated to extend a maximum of **14.5m** from the transmit antenna.

Note: There are no occupied buildings within the zone of predicted interference, so in accordance with 47 C.F.R. § 74.1204(d) and the clarification provided by the FCC in the decision *Re: Living Way Ministries* (FCC 02-244), a lack of population has been demonstrated within the area of interference and this application is therefore in full compliance with 47 C.F.R. § 74.1204.

Antenna Manufacturer: BEXT
Antenna Model: TFC2K @ 115°
CORAGL: 10 m
Maximum ERP: 0.063kW
Interfering Contour: 131.0 dBμ
Max Int. Contour Distance: 14.5 m

Adjacent Channel Study

K288DR, Palm Springs, CA FAC# 72006

REFERENCE
33 52 00.10 N.
116 26 06.50 W.

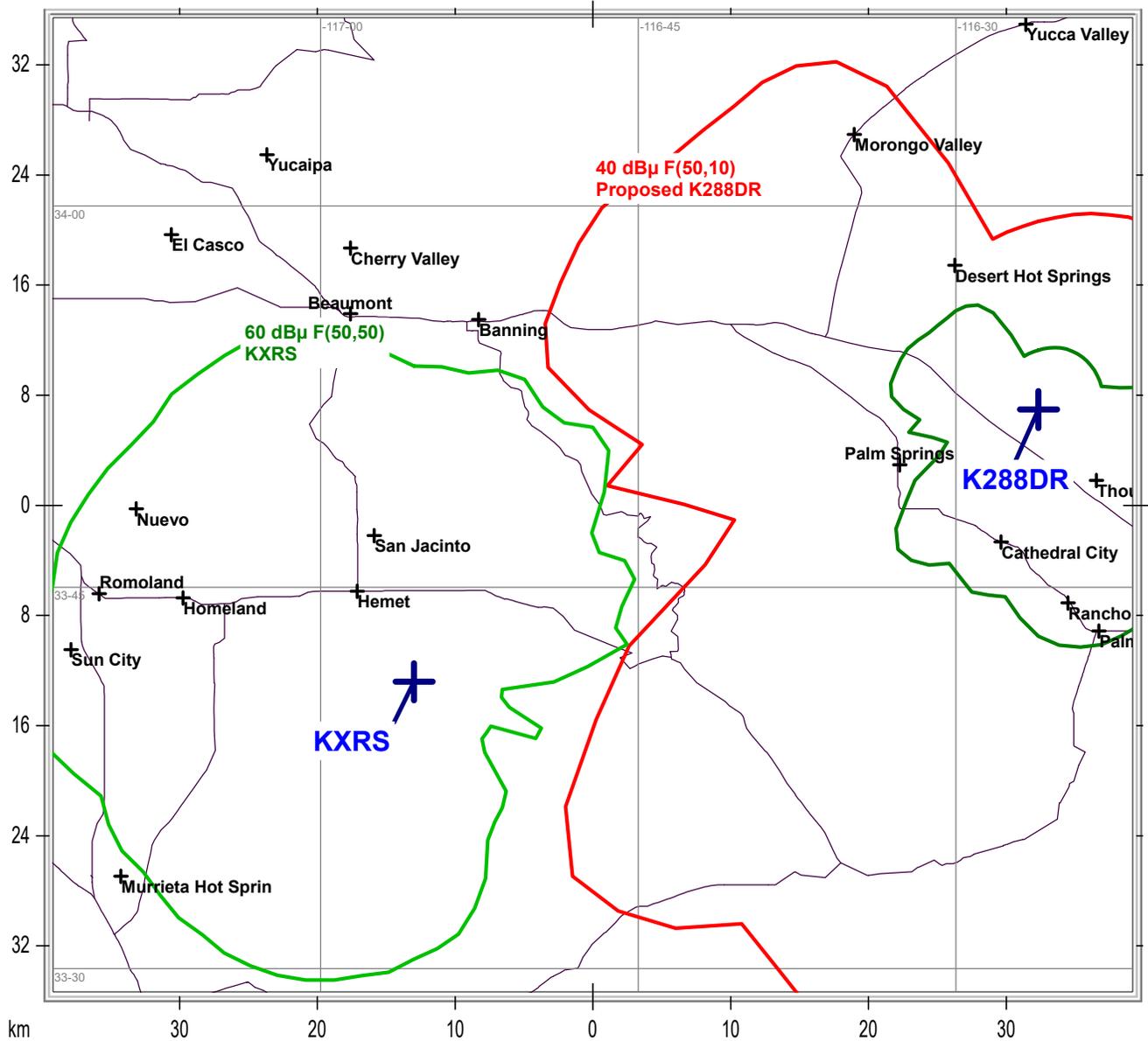
CH# 289D - 105.7 MHz, Pwr= 0.063 kW DA, HAAT= 154.8 M, COR= 467 M
Average Protected F(50-50)= 11.44 km
Standard Directional

DISPLAY DATES
DATA 08-07-23
SEARCH 08-08-23

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*
291B Palm Springs	KPLM	LIC _CN CA		88.6 268.8	19.09 BLH19981105KC	33 52 14.10 116 13 42.00	50.000 121	10.4 840	95.5 R M Broadcasting, LLC	-3.8	-77.4*
289C1 Tecate	AL8894	___ BN		187.2 7.0	173.93	32 18 51.25 116 39 57.06	100.000 299	188.9 820	72.0 From CDBS	-31.4*	48.2
288D Desert Hot Springs, CA	K288DR	LIC _VN CA		185.9 5.9	0.12 BMLFT20090127AEN	33 51 56.10 116 26 07.00	0.010 156	467	---Reference--- CSN International		
288A Beaumont	KXRS	CP _CN CA		289.8 109.5	53.03 0000178819	34 01 38.50 116 58 35.70	3.100 143	64.8 1370	32.4 Lazer Licenses, LLC	-16.6*	0.0
289A Hemet	KXRS	LIC _CN CA		246.5 66.2	49.55 BLH19881116KE	33 41 17.10 116 55 35.10	0.170 312	56.4 1032	16.6 Lazer Licenses, LLC	-16.0*	0.0
286A Bermuda Dunes	KLXB	LIC ZCN CA		227.2 47.2	0.22 BMLED20170103ABT	33 51 55.10 116 26 13.00	2.050 175	1.6 479	12.1 Educational Media Foundati	-15.5*	-12.3*
289C1 Tecate	XHBCE+	OPE DHN BN		187.2 7.0	173.93 20050506MEX	32 18 51.25 116 39 57.06	8.200 782	164.6 1309	72.0	-7.2	43.6
289A Hemet	KXRS	STA _CN CA		259.7 79.4	51.01 0000200667	33 47 01.30 116 58 42.07	0.170 -140	21.5 476	6.4 Lazer Licenses, LLC	18.3	13.1
291D Joshua Tree & Twent	KPLM-FM1	LIC DVN CA		34.2 214.4	38.72 BLFTB19990831AAL	34 09 16.00 116 11 54.00	0.200 86	0.0 967	1.1 Rm Broadcasting LLC	32.9	36.6
291D San Jacinto	KPLM-FM2	LIC DVN CA		265.3 85.0	48.07 BLFTB20010109AAX	33 49 49.10 116 57 14.10	0.250 446	0.0 1142	1.6 Rm Broadcasting L.L.C.	37.4	35.7

Terrain database is FCC NGDC 30 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= East Zone 2A, 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 restricted contour.
Reference station has protected zone issue: Mexico- AM tower

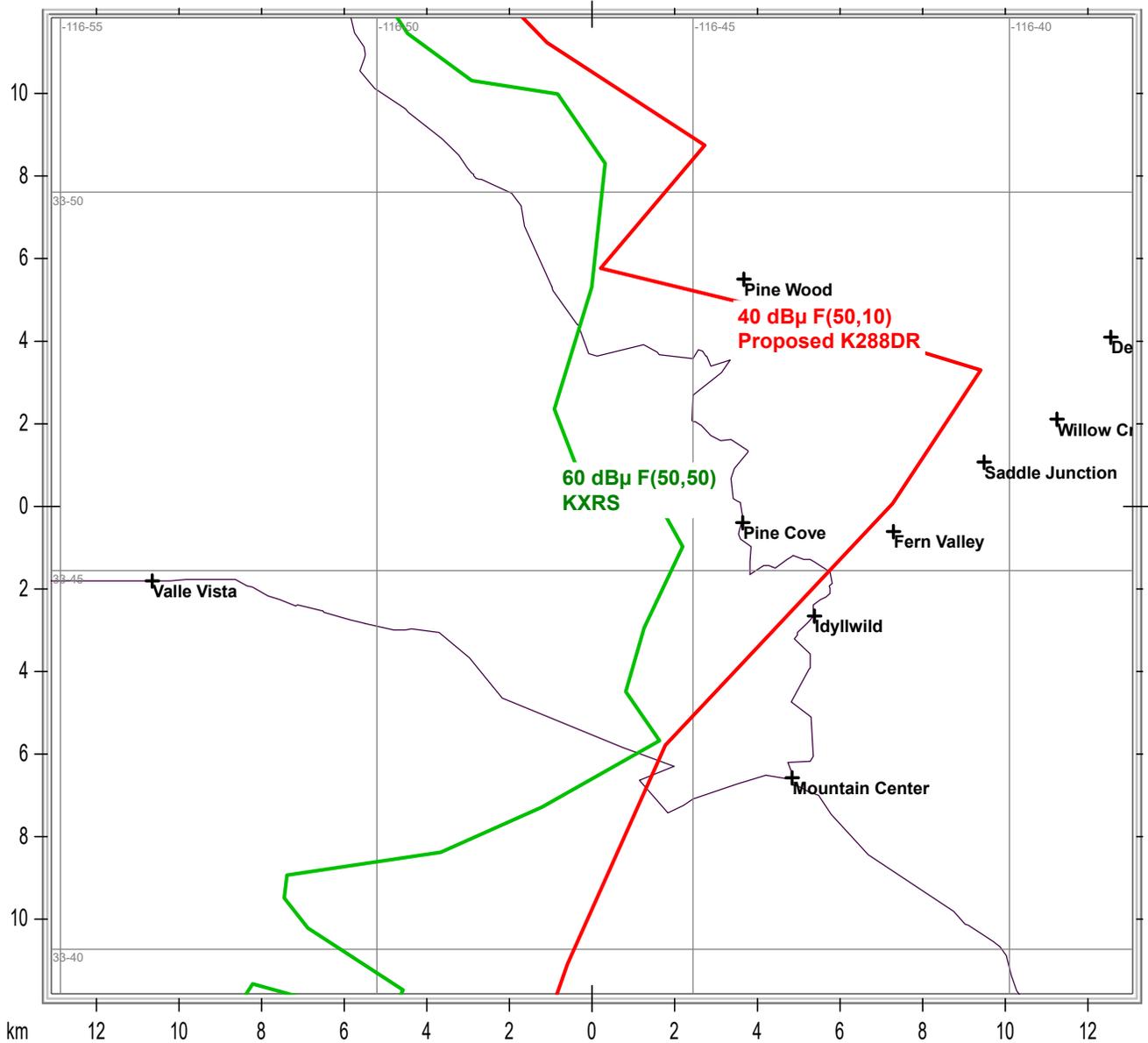
KXRS Contour Non-Interference Overview Map



33-52-0.1W, 116-26-6.5W, 10m, 63W, channel 289, TFC2K @115°, fill-in KLXB-HD4

State Borders Highways Lat/Lon Grid

KXRS Contour Non-Interference Close-Up Map



33-52-0.1W, 116-26-6.5W, 10m, 63W, channel 289, TFC2K @115°, fill-in KLXB-HD4

State Borders Highways Lat/Lon Grid