

Non-Interference Compliance
K288DR, Desert Hot Springs, CA FAC# 72006
May 18, 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 ComStudy 2.2 which shows all co-channel, 1st adjacent, 2nd adjacent and 3rd adjacent to the proposal.

Page 4 of this exhibit is a Google Earth aerial photo of the vicinity surrounding the proposed translator's tower site with the plotted zone of predicted interference.

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	126.0
BLH-19981105KC	KPLM	126.0	126.0
Minimum F(50,50) Contour of Adjacent Station within Proposed Translator's Standard Interfering Contour			126.0

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 **126.0 dBμ**, this makes the proposed translator's worst-case interfering contour **166.0 dBμ**. By the free-space equation, this contour is calculated to extend a maximum of **0.5m** 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: SCALA
Antenna Model: 2-CA2-CP Composite
CORAGL: 10 m
Maximum ERP: 0.250 kW
Interfering Contour: 166.0 dBμ
Max Int. Contour Distance: 0.5 m

Adjacent Channel Study
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Callsign	State	City	Channel	ERP (W)	Class	Status	Distance (km)	Clr
KLXB	CA	BERMUDA DUNES	286	2050	A	LIC	0.23	-70.04 dB
KPLM	CA	PALM SPRINGS	291	50000	B	LIC	19.14	-38.43 dB
K288DR	CA	PALM SPRINGS	289	250	D	APP	0	-36.46 dB
K288DR	CA	DESERT HOT SPRINGS,	288	10	D	LIC	0.12	-36.67 dB
KXRS	CA	BEAUMONT	288	3100	A	CP MOD	53.13	1.18 dB
KXRS	CA	HEMET	289	170	A	LIC	49.63	4.94 dB
XHBCE*	BN	TECATE	289	100000	C1		173.52	6.87 dB
XHBCE	BN	TECATE	289	100000	C1		173.52	7.11 dB
KXRS	CA	HEMET	289	3000	A	LIC	53.79	13.29 dB
	BN	MATAMOROS JARAMIL	289	50000	B		159.85	14.54 dB
XHBCE-FM	BN	MATAMOROS JARAMIL	289	50000	B		159.85	14.45 dB
KKGO	CA	LOS ANGELES	286	18000	B	LIC	156.1	19.93 dB
KPWR	CA	LOS ANGELES	290	25000	B	LIC	155.95	19.14 dB
KKGO	CA	LOS ANGELES	286	18000	B	LIC	156.1	19.75 dB
KPWR	CA	LOS ANGELES	290	25000	B	LIC	166.03	21.57 dB
KPWR	CA	LOS ANGELES	290	25000	B	LIC	166.03	21.57 dB
KPWR	CA	LOS ANGELES	290	25000	B	LIC	166.03	21.57 dB
KXRS	CA	HEMET	289	170	A	APP	51.12	21.31 dB
KWXZ-LP	CA	COACHELLA	236	50	LP100	LIC	31.83	24.8
	BN	RUMOROSA	288	25000	B1		166.92	24.51 dB
KIOZ	CA	SAN DIEGO	287	26000	B	LIC	137	25.94 dB
KKGO	CA	LOS ANGELES	286	35000	B	LIC	166	26.45 dB
KKGO	CA	LOS ANGELES	286	3500	B	LIC	156.1	26.93 dB
	BN	ROSARITO	289	3000	A		180.96	27.38 dB
K288DJ	CA	VICTORVILLE, ETC.	288	10	D	LIC	114.03	30.27 dB
K289CU	AZ	LAKE HAVASU CITY	289	250	D	CP MOD	215.5	30.02 dB
KOHM	CA	RIDGECREST	289	380	A	LIC	213	31.98 dB
	BN	ENSENADA	290	100000	C		224.13	31.79 dB
XHSUFM	BN	MEXICALI	290	3000	A		161.62	31.44 dB
XHSUFM	BN	MEXICALI	290	3000	A		161.62	31.32 dB
	BN	MEXICALI	290	3000	A		163.08	31.76 dB
KPLM-FM1	CA	JOSHUA TREE & TWEN'	291	200	D	LIC	38.69	33.08 dB
XHCMSFM	BN	MICHOACAN DE OCAM	288	25000	B1		192.22	33.71 dB
XHCMSFM	BN	MICHOACAN DE OCAM	288	25000	B1		192.22	33.74 dB
KIOZ	CA	SAN DIEGO	287	8500	B	LIC	140.03	34.80 dB
KOAS-FM1	NV	HENDERSON	289	2500	D	LIC	278.81	38.42 dB

Google Earth Photo
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There are no occupied buildings within the .5m zone of predicted interference surrounding the transmit site for this proposal.