

## **Non-Interference Compliance K212EK, Victorville, CA FAC# 76689**

### **Description of Exhibit Contents**

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, 1<sup>st</sup> adjacent, 2<sup>nd</sup> adjacent and 3<sup>rd</sup> adjacent to the proposal.

## 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
0000130434	KLXD	113.4	113.4
BLED-19961016KA	KHMS	116.0	116.0

Minimum F(50,50) Contour of Adjacent Station within  
Proposed Translator's Standard Interfering Contour **113.4**

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 **113.4 dBμ**, this makes the proposed translator's worst-case interfering contour **153.4 dBμ**. By the free-space equation, this contour is calculated to extend a maximum of **.4m** from the transmit antenna.

**Note:**The only structure near the zone of predicted interference is an unoccupied communications buildings 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 @ 245°  
CORAGL: 20 m  
Maximum ERP: 0.010 kW  
Interfering Contour: 153.4 dBμ  
Max Int. Contour Distance: 0.4 m

**Adjacent Channel Study**  
**K212EK, Victorville, CA FAC# 76689**  
**8/8/2023**

Callsign	State	City	Channel	ERP (W)	Class	Status	Distance (km)	Clr
KLXD	CA	VICTORVILLE	208	1200	B1	LIC	0.43	-67.71 dB
KHMS	CA	VICTORVILLE	203	200	A	LIC	0.16	-59.93 dB
K258DE	CA	APPLE VALLEY	258	190	D	LIC	0.13	0.1
KODV	CA	BARSTOW	206	5800	B	LIC	46	0.88 dB
KT LW	CA	LANCASTER	205	5800	A	LIC	83.92	1.29 dB
KUOR-FM	CA	REDLANDS	206	35	A	LIC	50.92	6.92 dB
KFHM	CA	BIG BEAR CITY	204	145	A	LIC	58.82	15.68 dB
KUOR-FM	CA	REDLANDS	206	290	A	LIC	61.91	15.65 dB
KFHM	CA	BIG BEAR CITY	204	145	A	APP	58.82	15.68 dB
KUOR-FM	CA	REDLANDS	206	205	A	LIC	62.14	16.02 dB
KFHM	CA	BIG BEAR CITY	204	7	A	APP	54.68	17.16 dB
KSPC	CA	CLAREMONT	204	400	A	LIC	65.46	17.71 dB
KPCC	CA	PASADENA	207	600	B	LIC	83.27	17.89 dB
K205DK	CA	YUCCA VALLEY	205	10	D	LIC	104.88	17.84 dB
KSDW	CA	TEMECULA	205	270	B	LIC	141.42	18.01 dB
KUCR	CA	RIVERSIDE	202	150	A	LIC	71.45	20.16 dB
K204GG	CA	BANNING	204	14	D	LIC	70.04	20.05 dB
K205EP	CA	SANTA CLARITA	205	10	D	LIC	124.44	20.85 dB
KXLU	CA	LOS ANGELES	205	2900	A	LIC	125.76	21.35 dB
KUCI	CA	IRVINE	205	200	A	LIC	118.74	21.51 dB
KNPR	NV	LAS VEGAS	205	22000	C	LIC	221.47	26.96 dB
K205DT	CA	INDIO	205	6	D	LIC	132.79	26.71 dB
K202DM	CA	BARSTOW	202	10	D	LIC	45.99	26.96 dB
K205DT	CA	INDIO	205	10	D	CP MOD	132.79	27.18 dB
KXAO	CA	JOSHUA TREE	204	45	A	CP MOD	104.9	32.51 dB
KBLV	CA	TEHACHAPI	204	390	B	LIC	151.25	32.87 dB
KPCC	CA	PASADENA	207	10000	B	LIC	97.11	33.47 dB
K258CK	CA	BARSTOW	258	10	D	LIC	35.15	35.2
K206AA	CA	LAGUNA BEACH	206	40	D	LIC	125.21	37.29 dB
KPSC	CA	PALM SPRINGS	203	1600	A	LIC	114.02	37.60 dB
KPRX	CA	BAKERSFIELD	206	11000	B1	LIC	175.47	38.80 dB
KNPR	NV	LAS VEGAS	205	2000	C	LIC	221.47	38.33 dB
KCRI	CA	INDIO	207	3200	B1	LIC	132.86	39.14 dB
NCE-APP-AMD	CA	BARSTOW	202	1000	A	CP MOD	41.1	39.98 dB