

Non-Interference Compliance K211DC, Las Vegas, NV FAC# 78969

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, 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	Call Sign	Contour at Tower
BMLED-20171002AAE	KSOS	139.6
BLED-20031205AEP	KCNV	64.0
Minimum F(50,50) Contour of Adjacent Station Within Proposed Translator's Interfering Contour		64.0

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 **64.0 dBμ**, this makes the proposed translator's worst-case interfering contour **104.0 dBμ**. By the free-space equation, this contour is calculated to extend a maximum of **146.2 m** from the transmit antenna.

Note:The only structures within the zone of predicted interference are 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:	PSI
Antenna Model:	FML-DA
CORAGL:	69 m
Maximum ERP:	0.011 kW
Interfering Contour:	104.0 dBμ
Max Int. Contour Distance:	146.2 m

Adjacent Channel Study
K211DC, Las Vegas, NV FAC# 78969
8/17/2023

Callsign	State	City	Channel	ERP (W)	Class	Status	Distance (km)	Clr
KSOS	NV	LAS VEGAS	213	100000	C	LIC	0.23	-86.92 dB
K211DC	NV	LAS VEGAS	211	10	D	LIC	18.52	-34.80 dB
KCNV	NV	LAS VEGAS	209	550	C2	LIC	44.94	-4.24 dB
K265EZ	NV	HENDERSON	265	35	D	LIC	0.23	0.2
K211GC	CA	LAS VEGAS	211	80	D	LIC	23.68	1.48 dB
NCE-MXG-38-AM	NV	CRYSTAL	211	100000	C1	APP	100.89	3.92 dB
KLKI	AZ	BULLHEAD CITY	210	18000	C0	LIC	87.81	8.38 dB
KJPT	NV	INDIAN SPRINGS	211	48000	C2	CP MOD	90.78	8.97 dB
NCE-MXG-38	CA	BAKER	211	1300	B1	DEL	104.65	18.94 dB
K210ET	NV	MOAPA, ETC.	210	90	D	LIC	86.71	25.16 dB
K208BB	NV	LAUGHLIN, ETC.	208	135	D	LIC	87.96	29.80 dB
KAIH	AZ	LAKE HAVASU CITY	208	25000	C	CP MOD	177.92	30.00 dB
KWFH	AZ	PARKER	212	3500	C1	CP MOD	177.87	35.68 dB
KSGU	UT	ST. GEORGE	210	6500	C1	CP MOD	164.49	37.79 dB

Aerial Photo Zone Of Predicted Interference
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August 17, 2023

