Non-Interference Compliance
K200AA, Sun Valley, NV FAC# 83363

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
0000158687	**KYSA**	70.4

Minimum F(50,50) Contour of Adjacent Station Within Proposed Translator's Interfering Contour	**70.4**

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 **70.4 dBμ**, this makes the proposed translator's worst-case interfering contour **110.4 dBμ.** By the free-space equation, this contour is calculated to extend a maximum of **336.2 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:	**BEXT**
Antenna Model:	**TFC2K**
CORAGL:	**45 m**
Maximum ERP:	**0.250 kW**
Interfering Contour:	**110.4 dBμ**
Max Int. Contour Distance:	**336.2 m**

Adjacent Channel Study
K200AA, Sun Valley, NV FAC# 83363
8/23/2023

Callsign	State	City	Channel	ERP (W)	Class	Status	Distance (km)	Clr
K200AA	NV	SUN VALLEY	200	28	D	LIC	10.62	-42.33 dB
KYSA	NV	SPARKS	202	2950	C1	LIC	36.88	-11.01 dB
K254AK	NV	RENO	254	28	D	LIC	10.61	10.6
K201HO	NV	RENO	201	75	D	LIC	32.04	16.72 dB
K201FV	CA	TRUCKEE	201	65	D	LIC	44.44	19.79 dB
K201AJ	CA	SOUTH LAKE TAHOE, ET	201	19	D	LIC	67.85	26.21 dB
K254AR	CA	TRUCKEE	254	10	D	LIC	26.71	26.7
K254AR	CA	TRUCKEE	254	10	D	APP	26.71	26.7
KQNC	CA	QUINCY	201	500	A	LIC	114.65	34.03 dB

Aerial Photo Zone 0f Predicted Interference
K200AA, Sun Valley, NV FAC# 83363
August 23, 2023