

## **Non-Interference Compliance K211FE, Winnemucca, NV FAC# 92263**

### **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.

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.

<u>File Number</u>	<u>Call Sign</u>	<u>Contour at Tower</u>
0000167258	NEW, Winnemucca	collocated

Minimum F(50,50) Contour of Adjacent Station Worst Case Scenario	> 100 dBμ
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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 2<sup>nd</sup> adjacent FAC# 92263 is collocated on the same tower as the proposed K211FE the contour strength is greater than 100 dBμ zone of predicted interference is less than .01m.

**Note: The only structure within 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:	TEL
Antenna Model:	ANT90D
CORAGL:	12 m
Maximum ERP:	.01 kW
Interfering Contour:	>100.0 dBμ
Max Int. Contour Distance:	< .01m

**Adjacent Channel Study**  
**K211FE, Winnemucca, NV FAC# 92263**  
**12-Mar-24**

<b>Callsign</b>	<b>State</b>	<b>City</b>	<b>Channel</b>	<b>ERP (W)</b>	<b>Class</b>	<b>Status</b>	<b>Distance (km)</b>	<b>Clr</b>
NCE-APP	NV	WINNEMUCCA	212	2000	C1	CP	0.03	-69.93 dB
KQNV	NV	FALLON	210	12500	C1	LIC	156.07	10.58 dB
K211FG	NV	BATTLE MOUNTAIN	211	94	D	LIC	100.89	16.03 dB
KQNV	NV	FALLON	210	200	C1	APP	156.07	24.97 dB
KKTO	CA	TAHOE CITY	213	38000	C	APP	260.76	38.65 dB
KLKR	NV	ELKO	207	5000	C1	LIC	161.92	38.11 dB
KKTO	CA	TAHOE CITY	213	38000	C	LIC	260.76	38.65 dB

Aerial Photo Zone of Predicted Interference  
K211FE, Winnemucca, NV FAC# 92263  
March 12, 2024

