

## **Non-Interference Compliance K212DQ, Lakeview, OR FAC# 122154**

### **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.

<b>File Number</b>	<b>Call Sign</b>	<b>Contour at Tower</b>
<b>0000167857</b>	<b>NEW, Lakeview</b>	<b>80.2 dBμ</b>
<b>BLED-20000922ABE</b>	<b>KOAP</b>	<b>69.1 dBμ</b>

Minimum F(50,50) Contour of Adjacent Station  
Worst Case Scenario

**69.1 dBμ**

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 **69.1dBμ**, this makes the proposed translator's worst-case interfering contour **109.1 dBμ**. By the free-space equation, this contour is calculated to extend a maximum of **81.4m** 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.**

<b>Antenna Manufacturer:</b>	<b>TEL</b>
<b>Antenna Model:</b>	<b>ANT90D</b>
<b>CORAGL:</b>	<b>17.0 m</b>
<b>Maximum ERP:</b>	<b>0.011 kW</b>
<b>Interfering Contour:</b>	<b>109.1 dBμ</b>
<b>Max Int. Contour Distance:</b>	<b>81.4 m</b>

**Adjacent Channel Study**  
**K212DQ, Lakeview, OR FAC# 122154**  
**12/18/2023**

Callsign	State	City	Channel	ERP (W)	Class	Status	Distance (km)	Clr
NCE-MXG-185-AI	OR	LAKEVIEW	208	1000	A	CP MOD	3.1	-28.35 dB
KOAP	OR	LAKEVIEW	204	170	A	LIC	3.77	-13.12 dB
K208AX	OR	LAKEVIEW	208	5	D	LIC	26.5	12.11 dB
K206EH	OR	SPRAGUE RIVER	206	215	D	LIC	101.39	16.97 dB
K207CR	CA	CEDARVILLE	207	75	D	LIC	66.1	19.73 dB
KBVD	CA	ALTURAS	205	500	C3	CP	118.27	21.83 dB
KBVD	CA	ALTURAS	205	500	A	LIC	82.13	22.31 dB
K206AF	OR	BEAVER MARSH, ETC	206	44	D	LIC	166.85	32.75 dB
KNCA	CA	BURNEY	209	30000	C0	LIC	191.01	34.06 dB
KJKF	OR	KLAMATH FALLS	205	110	A	LIC	136.67	34.92 dB
KSMF	OR	ASHLAND	206	2300	C2	LIC	200.17	35.45 dB
KLMF	OR	KLAMATH FALLS	203	95	A	LIC	108.58	37.35 dB
K208EC	OR	SILVER LAKE	208	10	D	LIC	95.78	38.07 dB

**Aerial Photo Zone of Predicted Interference**  
**K212DQ, Lakeview, OR FAC# 122154**  
**December 18, 2023**

