

Non-Interference Compliance K258AR, Cloverdale, OR FAC# 139549

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
BMLH-20070606ABU	KODZ	111.0
BMLH-20050331BAJ	KRKT-FM	71.0
Minimum F(50,50) Contour of Adjacent Station		
Within Proposed Translator's Interfering Contour		71.0

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 **71.0 dBμ**, this makes the proposed translator's worst-case interfering contour **111.0 dBμ**. By the free-space equation, this contour is calculated to extend a maximum of **62.8 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: 55 m
Maximum ERP: 0.010 kW
Interfering Contour: 111.0 dBμ
Max Int. Contour Distance: 62.8 m

Adjacent Channel Study
K258AR, Cloverdale, OR FAC# 139549
8/31/2023

Callsign	State	City	Channel	ERP (W)	Class	Status	Distance (km)	Clr
K258AR	OR	CLOVERDALE	258	10	D	LIC	8.95	-46.11 dB
KODZ	OR	EUGENE	256	100000	C	LIC	9	-38.47 dB
KRKT-FM	OR	ALBANY	260	100000	C0	LIC	54.85	-11.13 dB
KJMX	OR	REEDSPORT	258	11000	C3	LIC	107.07	3.74 dB
K259DE	OR	COTTAGE GROVE	259	200	D	LIC	46.68	6.55 dB
KWJJ-FM	OR	PORTLAND	258	52000	C1	LIC	145.49	6.38 dB
KWJJ-FM	OR	PORTLAND	258	23000	C1	LIC	145.49	10.30 dB
KQFE	OR	SPRINGFIELD	205	1250	C3	LIC	23.76	11.8
KMTK	OR	BEND	259	26000	C2	LIC	132.99	29.28 dB
KQUA-LP	OR	ROSEBURG	259	100	LP100	LIC	113.35	30.24 dB
K257DT	OR	SUNRIVER	257	19	D	LIC	137.35	35.20 dB
KFXX-FM	OR	KLAMATH FALLS	258	60000	C1	LIC	240.32	35.92 dB
KBVR	OR	CORVALLIS	204	340	A	LIC	46.89	36.9
K257EB	OR	RIDDLE/DAYS CREEK	257	10	D	LIC	145.85	36.87 dB
K259AE	OR	WILLIAMS	259	250	D	LIC	202.89	39.19 dB
K258DB	OR	PHOENIX	258	11	D	LIC	211.64	39.31 dB

**Aerial Photo Zone Of Predicted Interference
K258AR, Cloverdale, OR FAC# 139549
August 31, 2023**

