

Non-Interference Compliance K211DS, Paris, TX FAC# 92772

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.

<u>File Number</u>	<u>Call Sign</u>	<u>Contour at Tower</u>
0000167287	KYBP	∞ dBμ
BLED-2001017	KHCP	68.5 dBμ

Minimum F(50,50) Contour of Adjacent Station Worst Case Scenario	68.5 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 the minimum protected contour strength within the proposed translator's standard interference contour is **68.5 dBμ**, this makes the proposed translator's worst-case interfering contour **108.5 dBμ**. By the free-space equation, this contour is calculated to extend a maximum of **252.7 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:	TEL
Antenna Model:	ANT90D @ 90°
CORAGL:	132 m
Maximum ERP:	0.092 kW
Interfering Contour:	108.5 dBμ
Max Int. Contour Distance:	252.7 m

Adjacent Channel Study
K211DS, Paris, TX FAC# 92772
3/26/2024

Callsign	State	City	Channel	ERP (W)	Class	Status	Distance (km)	Clr
K211DS	TX	PARIS	211	75	D	LIC	0.37	-56.56 dB
KYBP	TX	PARIS	211	250	A	CP	0.36	-52.29 dB
KHCP	TX	PARIS	207	21000	C3	LIC	24.59	-9.06 dB
KPCO-FM	TX	COOPER	210	100	A	LIC	29.99	2.58 dB
KAWA	TX	SANGER	209	95000	C	LIC	131.29	6.56 dB
KVNE	TX	TYLER	208	96000	C1	LIC	123.25	14.37 dB
KDAQ	LA	SHREVEPORT	210	100000	C1	LIC	183.65	29.46 dB
KERA	TX	DALLAS	211	30000	C0	LIC	174.9	31.50 dB
NCE-MXG-171	OK	CADDO	206	45000	C2	APP	92.14	32.25 dB
KBHN	AR	BOONEVILLE	209	59000	C1	LIC	217.34	33.51 dB
KERA	TX	DALLAS	211	29000	C0	LIC	177.62	33.92 dB
KNON	TX	DALLAS	207	55000	C1	LIC	175.11	34.80 dB
KQYR	TX	MOUNT PLEASANT	211	750	A	CP	64.73	34.72 dB
NCE-MXG-171	OK	DURANT	206	15000	C3	APP	89.57	34.72 dB
NCE-MXG-11	AR	EMMET	209	3000	A	CP	192.99	34.45 dB
KLRB	OK	STUART	210	31000	C2	LIC	154.04	34.38 dB
K210DV	AR	DE QUEEN	210	250	D	LIC	125.24	34.20 dB
KYFP	TX	PALESTINE	206	100000	C1	LIC	179.57	35.26 dB
KVNE	TX	TYLER	208	9000	C1	LIC	150.35	36.15 dB
KBJS	TX	JACKSONVILLE	212	16000	C1	LIC	173.82	37.39 dB
KXQJ	TX	CLARKSVILLE	211	100	A	LIC	47.53	37.74 dB
KKLT	AR	TEXARKANA	207	23000	C2	LIC	158.73	38.27 dB
KCNP	OK	ADA	208	5800	C3	LIC	163.05	39.52 dB

Aerial Photo Zone of Predicted Interference
K211DS, Paris, TX FAC# 92772
March 26, 2024

