

Non-Interference Compliance

Regarding Facility id 10895

Channel 203

Description of Exhibit 13 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 tabulated data from the interference analysis, which shows all stations whose protected contours come within 50 km of the 34 dBμ F(50,10) contour of the proposed translator. These tabulated values were calculated using data from the FCC's CDBS files and 30 arc second terrain data. The column labeled "Adj" shows the number of channels difference between the entry and the proposed translator. The column labeled "Dist" shows the distance in km. The column labeled "Overlap" shows the area of contour overlap in square kilometers.

Page 4 of this exhibit is a portion of a USGS 1:24,000 scale 7.5 minute quadrangle at full scale with the calculated area of interference overlaid. The sheet includes the quadrangle name and measurement scale at the bottom-left corner (note: "Mt" refers to meters). The area of interference was calculated using the free space equation and 120 radials.

Page 5 of this exhibit is an aerial photo of the vicinity surrounding the proposed translator's tower site.

Note: There are no major roads or buildings within the zone of predicted interference, so 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.

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.

Application_id	File Number	Callsign	Contour at Tower	Min. Contour
1163489	BLFT20070207AAR	K205EX	99.6	92.7
1442009	BLED20110829AAX	KCOI	74.8	74.8
Minimum F(50,50) Contour of Adjacent Station within Proposed Translator's Standard Interfering Contour				74.8

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 **74.8 dBμ**, this makes the proposed translator's worst-case interfering contour **114.8 dBμ**. By the free-space equation, this contour is calculated to extend a maximum of **127 m** from the transmit antenna.

The interfering contour of the proposed translator was calculated for 120 radials and plotted on the pertinent portion of a USGS quadrangle (page 4 of this exhibit). As demonstrated on the quadrangle, there are no populated structures or highways within the area of interference (Note: FCC 02-244 at Section II.A.6 states that USGS quadrangles "have been recognized as acceptable to demonstrate lack of population").

Note: There are no major roads or buildings within the zone of predicted interference, so 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: SHI
Antenna Model: 6812-4
CORAGL: 85 m
Maximum ERP: 0.099 kW
Interfering Contour: 114.8 dBμ
Max Int. Contour Distance: 127 m

Adjacent Channel Study **For Station K201CY, Facility_id: 10895**

Co-channel through third adjacent:

Application_id	Facility_id	Prefix	ARN	Call	Licensee	Class	City	State	Status	ERP	RCAMSL	Channel	Adj	Dist	Overlap
1163489	154270	BLFT	20070207AAR	K205EX	FAMILY LIFE BROADCASTING SYSTEM	D	CLOVIS	NM	LIC	0.06	1442	205	2	0.6	0.5908
1442009	122433	BLED	20110829AAX	KCOI	AMERICAN FAMILY ASSOCIATION	A	CLOVIS	NM	LIC	1.1	1347	201	2	4.3	0.5908
1110112	89528	BLFT	20060124AFK	K204DB	IHR EDUCATIONAL BROADCASTING	D	PORTALES	NM	LIC	0.25	1297	204	1	25	0
285231	90197	BLFT	19990517UC	K201EP	PAULINO BERNAL EVANGELISM	D	HEREFORD	TX	LIC	0.25	1222	201	2	83.5	0
1502259	174720	BSTA	20120530AFR	KENM	EASTERN NEW MEXICO UNIVERSITY	C3	TUCUMCARI	NM	APP	0.5	1524	205	2	89.1	0
1410515	174720	BLED	20101201AHT	KENM	EASTERN NEW MEXICO UNIVERSITY	C3	TUCUMCARI	NM	LIC	3	1528	205	2	89.1	0
1412312	154457	BLFT	20101216ACU	K202EF	IHR EDUCATIONAL BROADCASTING	D	TUCUMCARI	NM	LIC	0.14	1363	202	1	91.8	0
1336038	93643	BLED	20090929ALU	KRBG	GRACE CHRISTIAN CHURCH OF AMARILLO, INC	C3	UMBARGER	TX	LIC	9.5	1267	204	1	102.8	0
676999	65354	BLED	20030805AFF	KTTZ-FM	TEXAS TECH UNIVERSITY	C1	LUBBOCK	TX	LIC	70	1155	206	3	154.7	0

