

Non-Interference Compliance

Regarding Facility id 143730

Channel 258

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: The only structure within the zone of predicted interference is an unoccupied communications building 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
1441353	BLFT20110826ADS	K260BR	180.6	100
Minimum F(50,50) Contour of Adjacent Station within Proposed Translator's Standard Interfering Contour				100

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 **100 dBμ**, this makes the proposed translator's worst-case interfering contour **140 dBμ**. By the free-space equation, this contour is calculated to extend a maximum of **11.1 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: The only structure within the zone of predicted interference is an unoccupied communications building 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: SCA
Antenna Model: CL-FM @ 248°
CORAGL: 8 m
Maximum ERP: 0.25 kW
Interfering Contour: 140 dBμ
Max Int. Contour Distance: 11.1 m

Adjacent Channel Study **For Station K245BL, Facility_id: 143730**

Co-channel through third adjacent:

App_id	Fac_id	File_Number	Call	Licensee	Class	City	State	Status	ERP	RCAMSL	Char	Adj	Dist	Overlap
1441353	40555	BLFT-20110826ADS	K260BR	AIRCRAFT STORAGE SOLUTIONS	D	LAKE HAVASU CITY	AZ	LIC	0.034	1437	260	2	0	0.3231
1570684	157948	BNPFT-20130822AAI	K260CG	RICK L. MURPHY	D	MOHAVE VALLEY	AZ	CP	0.01	283	260	2	55.6	0
1065247	162222	BLFTB-20050601CEI	KGMN-FM1	NEW WEST BROADCASTING SY	D	BULLHEAD CITY	AZ	LIC	0.003	1213	261	3	56.1	0
1570022	156703	BNPFT-20130821ABF	K259CK	AIRCRAFT STORAGE SOLUTIONS	D	MOHAVE VALLEY	AZ	CP	0.082	205	259	1	57.6	0
174352	9038	BLFT-19920608TD	K256AA	DONALD F. HENDREN	D	KINGMAN	AZ	LIC	0.01	2569	256	2	64.6	0
1678697	141858	BNPFT-20150521ABV	K258CS	HORIZON CHRISTIAN FELLOWSH	D	KINGMAN	AZ	CP	0.0027	2562	258	0	64.6	0
1478185	9038	BPFT-20101005AAD	K256AA	DONALD F. HENDREN	D	KINGMAN	AZ	CP	0.01	2359	256	2	65.8	0
594551	48680	BMLH-20020213AAY	KGMN	NEW WEST BROADCASTING SY	C2	KINGMAN	AZ	LIC	0.91	2340	261	3	68.3	0
1118837	34556	BLH-20060320ADE	KHWY	KHWY, INC.	B	ESSEX	CA	LIC	9	1136	255	3	87.9	0
1645099	157072	BLFT-20140724ACH	K257FM	CAMERON BROADCASTING, INC.	D	LAUGHLIN	NV	LIC	0.25	1466	257	1	92.1	0
594339	34555	BMLH-20020228ADC	KHYZ	KHWY, INC.	B	MOUNTAIN PASS	CA	LIC	8.4	1864	259	1	162.3	0
1119105	146520	BLFT-20060314ADU	K257DV	ADVANCE MINISTRIES, INC. D/B/A	D	TWENTY-NINE PALM	CA	LIC	0.01	1304	257	1	170.2	0

Intermediate Frequencies (53 and 54 channels difference):

App_id	Fac_id	File_Number	Call	Licensee	Class	City	State	Status	ERP	RCAMSL	Channel	Adj	Dist	Clr
1602971	174119	BLED-20131202ADC	KAWP	ARIZONA WESTERN COLLEGE	A	PARKER	AZ	LIC	0.25	516.6	205	53	47.5	37.5

