

Non-Interference Compliance

Regarding Facility id 156808

Channel 290

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
1716103	BPFT20151228ALV	K292GC	143.4	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:	BEX
Antenna Model:	LOG-R
CORAGL:	10 m
Maximum ERP:	0.25 kW
Interfering Contour:	140 dBμ
Max Int. Contour Distance:	11.1 m

Adjacent Channel Study **For Station K290CG, Facility_id: 156808**

Co-channel through third adjacent:

App_id	Fac_id	File_Number	Call	Licensee	Class	City	State	Status	ERP	RCAMSL	Char	Adj	Dist	Overlap
1716103	38312	BPFT-20151228ALV	K292GC	STEVEN M. GREELEY	D	LAKE HAVASU CI	AZ	CP	0.095	613	292	2	0	0.2134
1746916	141692	BLFT-20161212ACJ	K287BL	CAMERON BROADCASTING, INC.	D	LAKE HAVASU CI	AZ	LIC	0.01	1443	287	3	7.7	0
1563162	38312	BLFT-20130715AAI	K292GC	STEVEN M. GREELEY	D	LAKE HAVASU CI	AZ	LIC	0.16	1430	292	2	7.7	0
1747277	156857	BLFT-20161219AAL	K289BW	AIRCRAFT STORAGE SOLUTION:	D	PARKER	AZ	LIC	0.001	134	289	1	39.3	0
1726908	156833	BLFT-20160419ABL	K293BR	AIRCRAFT STORAGE SOLUTION:	D	PARKER	AZ	LIC	0.25	141	293	3	39.4	0
1748291	156769	BMPFT-20170104ABI	K289BY	AIRCRAFT STORAGE SOLUTION:	D	HAVASU HEIGHT:	AZ	CP MOD	0.01	566	289	1	42.9	0
1727462	141878	BLFT-20160425AAV	K291BU	ADVANCE MINISTRIES, INC.	D	YUCCA	AZ	LIC	0.175	1334	291	1	62.3	0
1730235	141878	BPFT-20160531AAP	K291BU	ADVANCE MINISTRIES, INC.	D	YUCCA	AZ	CP	0.02	1334	290	0	62.3	0
1716826	27983	BPFT-20160104AAF	K292EU	STEVEN M. GREELEY	D	LAUGHLIN	NV	CP	0.2	1468	292	2	97.1	0
1541801	27983	BLFT-20130215ABY	K292EU	STEVEN M. GREELEY	D	LAUGHLIN	NV	LIC	0.185	1536	292	2	98	0
298941	51369	BLFT-81	K292AH	PALO VERDE VALLEY TV CLUB, I	D	BLYTHE	CA	LIC	0.009	922	292	2	102.6	0
300770	51357	BLFT-79	K288AR	PALO VERDE VALLEY TV CLUB, I	D	BLYTHE	CA	LIC	0.009	1013	288	2	102.6	0
1733225	191555	BLH-20160713ABC	KCNL	FMI MEDIA, INC.	C3	QUARTZSITE	AZ	LIC	0.39	1020	290	0	102.6	0
1458182	25692	BLH-20111104AKT	KOAS	BEASLEY MEDIA GROUP, LLC	C	DOLAN SPRINGS	AZ	LIC	100	1536	289	1	150.5	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
107941	965	BLFT-19871223TD	K237CK	DONALD F. HENDREN	D	RIVIERA, ETC.	AZ	LIC	0.155	1468	237	53	97.1	87.1
1722028	965	BPFT-20160217AAA	K237CK	DONALD F. HENDREN	D	RIVIERA, ETC.	AZ	CP	0.155	1467	237	53	97.1	87.1

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY



