

Non-Interference Compliance

Regarding Facility id 151026

Channel 207

Description of Exhibit 12 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.

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
263795	BLFT19980317TG	K204CE	128.1	103.9
Minimum F(50,50) Contour of Adjacent Station within Proposed Translator's Standard Interfering Contour				103.9

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 **103.9 dBμ**, this makes the proposed translator's worst-case interfering contour **143.9 dBμ**. By the free-space equation, this contour is calculated to extend a maximum of **1.4 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"). Hence, 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: SCA
Antenna Model: FMV
CORAGL: 6 m
Maximum ERP: 0.01 kW
Interfering Contour: 143.9 dBμ
Max Int. Contour Distance: 1.4 m

Adjacent Channel Study **For Station K261DG, Facility_id: 151026**

Co-channel through third adjacent:

Application_id	Facility_id	Prefix	ARN	Call	Licensee	Class	City	State	Status	ERP	RCMSL	Channel	Adj	Dist	Overlap
263795	43697	BLFT	19980317TG	K204CE	MOODY BIBLE INSTITUTE OF CHICAGO	D	CLIFTON	AZ	LIC	0.25	2020	204	3	0.1	0.0597
211609	3384	BLFT	19950726TB	K208BT	AZ BD OF REGENTS/UNIV. OF ARIZONA	D	SAFFORD	AZ	LIC	0.051	3064	208	1	56.5	0
190830	20540	BLFT	19931012TG	K204BU	FAITH COMMUNICATIONS CORPORATION	D	SILVER CITY	NM	LIC	0.011	2327	204	3	100.6	0
1169661	78758	BLED	20070124AKJ	KAIC	EDUCATIONAL MEDIA FOUNDATION	A	TUCSON	AZ	LIC	1.8	1090	205	2	128	0
494694	123072	BNPED	20000310ADG	NEW	ARIZONA BD OF REGENTS FOR AN ON BEHALF C	A	SPRINGERVILLE	AZ	APP	0.2	3113	207	0	138.1	0
1171757	94226	BPED	20061121ACF	KZAI	EDUCATIONAL MEDIA FOUNDATION	C0	COOLIDGE	AZ	CP	16	2270	210	3	149.5	0
1057583	94226	BLED	20050413AAL	KZAI	LIVING PROOF, INC.	C0	COOLIDGE	AZ	LIC	10	2270	210	3	149.5	0

