

Non-Interference Compliance

Regarding Facility id 157072

Channel 257

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 occupied buildings or major roads 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
1118837	BLH20060320ADE	KHWY	60.6	60.4
1429467	BPH20110609ABF	KHYZ	63.8	63.1
594339	BMLH20020228ADC	KHYZ	56.7	56.7
Minimum F(50,50) Contour of Adjacent Station within Proposed Translator's Standard Interfering Contour				56.7

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 **56.7 dBμ**, this makes the proposed translator's worst-case interfering contour **96.7 dBμ**. By the free-space equation, this contour is calculated to extend a maximum of **1621.7 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 occupied buildings or major roads 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: SCA
Antenna Model: CA5-FM/CP/RM @ 155°
CORAGL: 6 m
Maximum ERP: 0.25 kW
Interfering Contour: 96.7 dBμ
Max Int. Contour Distance: 1621.7 m

Adjacent Channel Study **For Station K257FM, Facility_id: 157072**

Co-channel through third adjacent:

App_id	Fac_id	File_Number	Call	Licensee	Class	City	State	Status	ERP	RCAMSL	Chan	Adj	Dist	Overlap
1118837	34556	BLH-20060320ADE	KHWY	KHWY, INC.	B	ESSEX	CA	LIC	9	1136	255	2	50.4	1.0699
1429467	34555	BPH-20110609ABF	KHYZ	KHWY, INC.	B	MOUNTAIN PASS	CA	CP	50	1378	259	2	70.9	1.0699
594339	34555	BMLH-20020228ADC	KHYZ	KHWY, INC.	B	MOUNTAIN PASS	CA	LIC	8.4	1864	259	2	78.8	1.0699
1570684	157948	BNPFT-20130822AAD	K260CG	RICK L. MURPHY	D	MOHAVE VALLEY	AZ	CP	0.01	283	260	3	36.5	0
1570022	156703	BNPFT-20130821ABH	K259CK	DONALD F. HENDREN	D	MOHAVE VALLEY	AZ	CP	0.082	205	259	2	38.1	0
1478185	9038	BPFT-20101005AAD	K256AA	DONALD F. HENDREN	D	KINGMAN	AZ	CP	0.01	2359	256	1	78	0
633548	141858	BNPFT-20030317AYA	NEW	HORIZON CHRISTIAN FELLOWSHIP	D	KINGMAN	AZ	APP	0.01	2562	258	1	78.4	0
174352	9038	BLFT-19920608TD	K256AA	DONALD F. HENDREN	D	KINGMAN	AZ	LIC	0.01	2569	256	1	78.5	0
1313791	178524	BLFTB-20090527AGH	KHYZ-FM2	KHWY, INC.	D	LAS VEGAS	NV	LIC	0.37	1247	259	2	82.8	0
675009	38447	BLFT-20030729AIA	K257BU	LOTUS BROADCASTING CORP.	D	HENDERSON	NV	LIC	0.099	1025	255	2	87.9	0
1069584	136175	BLFTB-20050815AED	KRG7-FM1	HBC LICENSE CORPORATION	D	LAS VEGAS	NV	LIC	6	1027	257	0	87.9	0
1571572	156420	BNPFT-20130828AFD	K254CE	DONALD F. HENDREN	D	NOTHING	AZ	CP	0.25	1456	254	3	92.1	0
1441353	40555	BLFT-20110826ADS	K260BR	DONALD F. HENDREN	D	LAKE HAVASU CIT	AZ	LIC	0.034	1437	260	3	92.1	0
643836	150777	BNPFT-20030317HBR	NEW	DONALD F. HENDREN	D	PEACH SPRINGS	AZ	APP	0.25	1897	258	1	123.3	0
619066	11614	BLH-20021203ACS	KRG7	UNIVISION RADIO LICENSE CORPORATION	C0	INDIAN SPRINGS	NV	LIC	31	2660.8	257	0	141	0
1418632	166065	BLH-20110225ACJ	KRPH	DEPORTES Y MUSICA COMUNICACIONES LLC	C2	MORRISTOWN	AZ	LIC	50	1262	258	1	223.3	0

Intermediate Frequencies (53 and 54 channels difference):

App_id

3054 IV
SEARCHLIGHT 1.62 500

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY



