

Non-Interference Compliance

Regarding Facility id 149089

Channel 255

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
1253866	BLH20080317ABD	KQPI	92.7	92.7
1484533	BMLH20120314ADR	KLLP	113.2	108.1
Minimum F(50,50) Contour of Adjacent Station within Proposed Translator's Standard Interfering Contour				92.7

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 **92.7 dBμ**, this makes the proposed translator's worst-case interfering contour **132.7 dBμ**. By the free-space equation, this contour is calculated to extend a maximum of **25.7 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: 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:	CA5-FM/CP/RM @ 105°
CORAGL:	43 m
Maximum ERP:	0.25 kW
Interfering Contour:	132.7 dBμ
Max Int. Contour Distance:	25.7 m

Adjacent Channel Study **For Station K224EK, Facility_id: 149089**

Co-channel through third adjacent:

App_id	Fac_id	File_Number	Call	Licensee	Class	City	State	Status	ERP	RCAMSL	Char	Adj	Dist	Overlap
1484533	8413	BMLH-20120314ADR	KLLP	RICH BROADCASTING IDAHO LS	C2	CHUBBUCK	ID	LIC	7	1808	253	2	1.3	0.2782
1253866	164125	BLH-20080317ABD	KQPI	SANDHILL MEDIA GROUP, LLC	C2	ABERDEEN	ID	LIC	2.2	2213	258	3	6.5	0.2782
1422421	64698	BLH-20110330ACF	KUPI-FM	SAND HILL MEDIA CORP.	C1	REXBURG	ID	LIC	100	1727	256	1	91.4	0
204010	72018	BMLH-19941114KC	KRSV-FM	WESTERN WYOMING RADIO, INC	A	AFTON	WY	LIC	3	2008	254	1	125.4	0
1484524	38274	BMPH-20120203AAB	KGNT	FRANDSEN MEDIA COMPANY, LL	A	SMITHFIELD	UT	CP MOD	6	1677	256	1	131.2	0
1345659	87843	BLH-20091208ABK	KSNQ	TOWNSQUARE MEDIA TWIN FAL	C1	TWIN FALLS	ID	LIC	100	1370	252	3	155.4	0
1629185	28218	BLH-20140306AKP	KXTA-FM	LEE FAMILY BROADCASTING, INC	C1	GOODING	ID	LIC	35	1413	256	1	155.7	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
1662339	146541	BLFT-20141125BAA	K202EL	BRIGHAM YOUNG UNIVERSITY-IL	D	IDAHO FALLS	ID	LIC	0.25	1779	202	53	68.4	58.4

IDAHO
7.5 MINUTE SERIES (TOPOGRAPHIC)

3580
(POCATELLO)



