

Non-Interference Compliance

Regarding Facility id 153577

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.

Since the proposed translator is within 320 km of the Canadian border, 47 C.F.R. § 74.1235(d) has been taken into account and this applicant certifies that in no direction does the 34 dBμ F(50,10) extend beyond 60 km, and this application is therefore in full compliance with 47 C.F.R. § 74.1235(d)(3), which states that "the distance to the 34 dBμ interfering contour may not exceed 60 km in any direction," and hence complies with 47 C.F.R. § 74.1204(h).

Note: The only structures within the zone of predicted interference are unoccupied communications buildings 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
1273166	BLH20081211AAO	KBBZ	85.8	85.8
	Minimum F(50,50) Contour of Adjacent Station within Proposed Translator's Standard Interfering Contour			85.8

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 **85.8 dBμ**, this makes the proposed translator's worst-case interfering contour **125.8 dBμ**. By the free-space equation, this contour is calculated to extend a maximum of **21 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 structures within the zone of predicted interference are unoccupied communications buildings 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:	TEL
Antenna Model:	ANT90D
CORAGL:	27 m
Maximum ERP:	0.034 kW
Interfering Contour:	125.8 dBμ
Max Int. Contour Distance:	21 m

Adjacent Channel Study **For Station NEW, Facility_id: 153577**

Co-channel through third adjacent:

Application_id	Facility_id	Prefix	ARN	Call	Licensee	Class	City	State	Status	ERP	RCAMSL	Channel	Adj	Dist	Overlap
1430455	0	RM	inv-32	Null		C	KALISPELL	MT	DEL	0	0	253	2	38.6	0.2029
1273166	4581	BLH	20081211AAO	KBBZ	BEE BROADCASTING, INC.	C	KALISPELL	MT	LIC	61	2018	253	2	38.6	0.2029
293166	4581	Null	Null	KBBZ	BEE BROADCASTING, INC.	C	KALISPELL	MT	USE	0	0	253	2	38.6	0.2029
282264	4581	BXLH	19990224KC	KBBZ	BEE BROADCASTING, INC.	C	KALISPELL	MT	LIC	1.45	1005	253	2	25.6	0
613296	93836	BLFT	20020924ABQ	K258AP	CALVARY CHAPEL OF TWIN FALLS, INC.	D	WHITEFISH	MT	LIC	0.001	2108	258	3	37.9	0
662925	11015	BLFT	20030521ADH	K257BR	KALISPELL CHRISTIAN RADIO FELLOWSHIP, INC.	D	POLSON	MT	LIC	0.25	932	257	2	50.6	0
1344261	164303	BLH	20091204ADQ	KZJZ	ANDERSON RADIO BROADCASTING, INC.	C2	ST. REGIS	MT	LIC	0.93	2099	256	1	96.7	0
293396	0	RM	9635	Null		C2	ST. REGIS	MT	USE	0	0	256	1	107.6	0
654464	-1	Null	Null	Null		B	FERNIE	BC		0	0	256	1	152.5	0
300070	96540	Null	Null	CKUA-2		C	LETHBRIDGE	AB		100	0	257	2	200.9	0



