

Non-Interference Compliance

Regarding Facility id 146561

Channel 231

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 structures within the zone of 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
1079709	BMLH20000616AAS	KZBQ	86.8	86.8
Minimum F(50,50) Contour of Adjacent Station within Proposed Translator's Standard Interfering Contour				86.8

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 **86.8 dBμ**, this makes the proposed translator's worst-case interfering contour **126.8 dBμ**. By the free-space equation, this contour is calculated to extend a maximum of **42.4 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").

Note: The only structures within the zone of 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:	NIC
Antenna Model:	BKG77 @ 210°
CORAGL:	20 m
Maximum ERP:	0.175 kW
Interfering Contour:	126.8 dBμ
Max Int. Contour Distance:	42.4 m

Adjacent Channel Study **For Station K284BQ, Facility_id: 146561**

Co-channel through third adjacent:

App_id	Fac_id	File_Number	Call	Licensee	Class	City	State	Status	ERP	RCAMSL	Chan	Adj	Dist	Overlap
1079709	28254	BMLH-20000616AAS	KZBQ	IDAHO WIRELESS CORPORATION	C	POCATELLO	ID	LIC	98	1821	229	2	6.7	0.8205
1491960	22197	BLFT-20120316ABA	K233CE	FRANDSEN MEDIA COMPANY LLC	D	POCATELLO	ID	LIC	0.045	1785	233	2	7.6	0
1432386	42885	BPH-20110616ACJ	KZDX	LEE FAMILY BROADCASTING, INC.	C	BURLEY	ID	CP	27	2536	228	3	105.6	0
1020048	55458	BMLH-20001228AAB	KVFX	SUN VALLEY RADIO, INC.	C0	LOGAN	UT	LIC	94	1773	233	2	110.1	0
1423019	56345	BLED-20110425ABY	KBYI	BRIGHAM YOUNG UNIVERSITY - IDAHO	C1	REXBURG	ID	LIC	99	1687	232	1	114.3	0
1547774	138558	BNPFT-20130326AGY	K234CB	CHAPARRAL BROADCASTING COMPANY	D	ALPINE	WY	CP	0.035	2730	234	3	115.8	0
1547772	138557	BNPFT-20130326AGU	K230BG	CATHEDRAL COMMUNICATIONS, INC.	D	ALPINE	WY	CP	0.099	2730	230	1	115.8	0
632937	141358	BNPFT-20030317AZV	NEW	EDUCATIONAL MEDIA FOUNDATION	D	SMITHFIELD	UT	APP	0.01	1758	230	1	118.1	0
1082351	123318	BLFTB-20050901ACW	KVFX-FM1	SUN VALLEY RADIO, INC.	D	TREMONTON	UT	LIC	11.4	1764	233	2	119.8	0
638979	146395	BNPFT-20030314ARO	NEW	SUN VALLEY RADIO, INC.	D	TREMONTON	UT	APP	0.25	1768	229	2	119.8	0
629057	138556	BNPFT-20030311ALH	NEW	JERROLD T. LUNDQUIST	D	LOGAN	UT	APP	0.075	1660	229	2	124.6	0
635744	143532	BNPFT-20030317ASN	NEW	POWELL MEREDITH COMMUNICATIONS COMPANY	D	LOGAN	UT	APP	0.25	1400	229	2	129.2	0
1206709	144752	BLFT-20070924ABK	K228EP	SUN VALLEY RADIO, INC.	D	LAKETOWN	UT	LIC	0.01	2300	228	3	143.5	0
1533532	82088	BLH-20121219AAP	KJAX	RP BROADCASTING LS, LLC	C1	JACKSON	WY	LIC	90	2479	228	3	158.3	0
1546461	146174	BNPFT-20130319ADX	K232EQ	EDGEWATER BROADCASTING, INC.	D	KIMBERLY	ID	CP	0.092	1232	232	1	164.1	0
633462	141790	BNPFT-20030312AOP	NEW	1400 INC.	D	HAILEY	ID	APP	0.013	2070	233	2	167.7	0

Intermediate Frequencies (53 and 54 channels difference):

App_id



