

## **Non-Interference Compliance**

Regarding Facility id 71784

Channel 266

### **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
1422415	BLH20110330ACH	KSNA	143	124.8
681022	BMLH20030825ANH	KCVI	71.1	71.1
Minimum F(50,50) Contour of Adjacent Station within Proposed Translator's Standard Interfering Contour				<b>71.1</b>

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 **71.1 dBμ**, this makes the proposed translator's worst-case interfering contour **111.1 dBμ**. By the free-space equation, this contour is calculated to extend a maximum of **309 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:** CA2-CP @ 0°  
**CORAGL:** 25 m  
**Maximum ERP:** 0.25 kW  
**Interfering Contour:** 111.1 dBμ  
**Max Int. Contour Distance:** 309 m

# **Adjacent Channel Study** **For Station K266AF, Facility\_id: 71784**

## **Co-channel through third adjacent:**

App_id	Fac_id	File_Number	Call	Licensee	Class	City	State	Status	ERP	RCAMSL	Char	Adj	Dist	Overlap
1422415	55237	BLH-20110330ACH	KSNA	SANDHILL MEDIA GROUP, LLC	C1	IDAHO FALLS	ID	LIC	100	1789	264	2	0.2	0.3477
681022	71785	BMLH-20030825ANH	KCVI	RIVERBEND COMMUNICATIONS,	C	BLACKFOOT	ID	LIC	95	2030	268	2	55.5	0.3477
1457580	178841	BLFTB-20111109AVE	KSNA-FM1	SANDHILL MEDIA GROUP, LLC	D	POCATELLO	ID	LIC	2.2	1443	264	2	66.4	0
1642525	146523	BMPFT-20140630AAI	K266BY	RIVERBEND COMMUNICATIONS,	D	POCATELLO	ID	CP MOD	0.06	1784	266	0	67.2	0
1548400	145863	BNPFT-20130328AM	K269GA	TED W. AUSTIN, JR.	D	WILSON	WY	CP	0.125	2647	269	3	86.3	0
189337	65281	BLFT-19930823TC	K265DA	RP BROADCASTING LS, LLC	D	TETON VILLAGE,	WY	LIC	0.076	3176	265	1	95.6	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
1143382	94211	BLED-20060927AMH	KAIO	EDUCATIONAL MEDIA FOUNDAT	A	IDAHO FALLS	ID	LIC	0.5	1708	213	53	23.5	13.5
1076278	90463	BLED-20050727ACZ	KZJB	WATERSPRINGS MINISTRIES	C3	POCATELLO	ID	LIC	0.91	1842	212	54	68.4	56.4
134723	69600	BLFT-19891023TE	K213BB	UTAH STATE UNIVERSITY OF AG	D	SODA SPRINGS	ID	LIC	0.111	2146	213	53	84.4	74.4

# GOSHEN QUADRANGLE

IDAHO

7.5 MINUTE SERIES (TOPOGRAPHIC)

3670 IV  
(AMMON 1:62 500)





