

Non-Interference Compliance

Regarding Facility id 148978

Channel 219

Description of Exhibit 12 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 a high resolution aerial photo of the vicinity surrounding the proposed translator's tower site provided by the U.S. Geological Survey's National Aerial Photography Program. It has been included to provide clarification of the nature of the buildings in the vicinity.

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
1028744	BLED20041202ADT	KISU-FM	164.3	124.7
1194311	BLH20070710AAY	KEGE	115.5	103.5
Minimum F(50,50) Contour of Adjacent Station within Proposed Translator's Standard Interfering Contour				103.5

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 **103.5 dBμ**, this makes the proposed translator's worst-case interfering contour **143.5 dBμ**. By the free-space equation, this contour is calculated to extend a maximum of **1.7 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"). Hence, in accordance with 47 C.F.R. § 74.1204(d) and the clarification provided by the FCC in the decision *Re: Living Way Ministries* (FCC 02-244), 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**
CORAGL: **18 m**
Maximum ERP: **0.013 kW**
Interfering Contour: **143.5 dBμ**
Max Int. Contour Distance: **1.7 m**

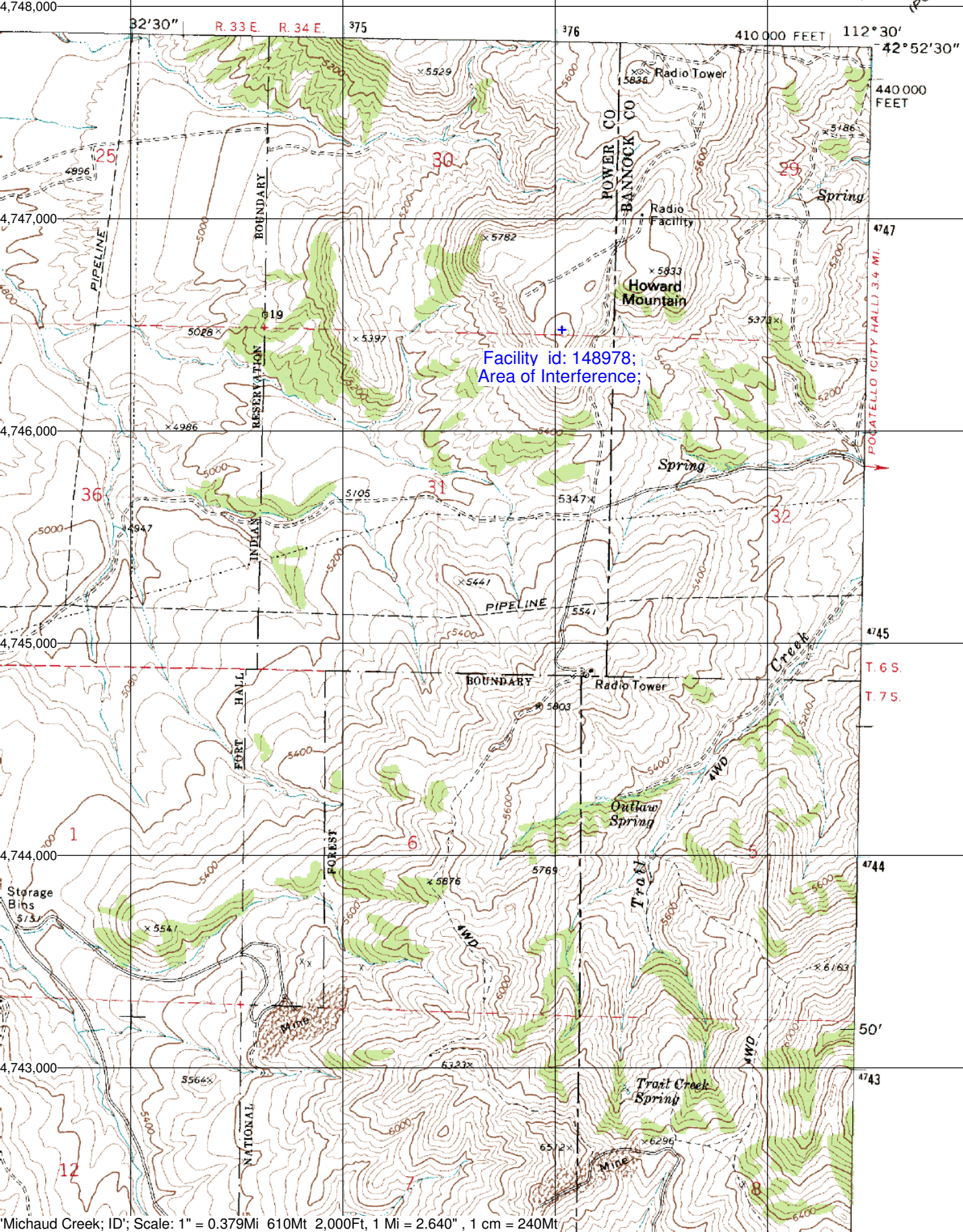
Adjacent Channel Study **For Station K222BT, Facility_id: 148978**

Co-channel through third adjacent:

Application_id	Facility_id	Prefix	ARN	Call	Licensee	Class	City	State	Status	ERP	RCAMSL	Channel	Adj	Dist	Overlap
1028744	85417	BLED	20041202ADT	KISU-FM	IDAHO STATE UNIVERSITY	C2	POCATELLO	ID	LIC	4.5	1841	216	3	0	0.0776
1194311	87656	BLH	20070710AAY	KEGE	INTERMART BROADCASTING POCATELLO, INC.	C2	POCATELLO	ID	LIC	12	1808	221	2	1.3	0.0776
93510	30247	BLFT	19861020TN	K221CE	CITICASTERS CO.	D	LAVA HOT SPRINGS	ID	LIC	0.059	1900	221	2	50.3	0
1197541	148644	BLFT	20070730ACQ	K221FH	RADIO ASSIST MINISTRY, INC.	D	IDAHO FALLS	ID	LIC	0.01	1564	221	2	90.9	0
996780	88556	BLFT	20040528ARP	K217EJ	EDUCATIONAL MEDIA FOUNDATION	D	IDAHO FALLS	ID	LIC	0.041	1700	217	2	91.4	0
1144598	92376	BLED	20060908AAG	KSQS	FAITH COMMUNICATIONS CORP.	A	RIRIE	ID	LIC	0.25	1706.5	219	0	91.4	0
635660	143453	BNPFT	20030317EPR	NEW	RADIO ASSIST MINISTRY, INC.	D	MONTPELIER	ID	APP	0.019	2162.2	221	2	105.3	0
1208246	173150	BNPED	20071016AIN	NEW	IDAHO COMMUNITY ACTION NETWORK	A	BURLEY	ID	APP	4	1288	220	1	106	0
1232706	173941	BNPED	20071019AIR	NEW	BRIGHAM YOUNG UNIVERSITY - IDAHO	A	BURLEY	ID	APP	0.085	2548	220	1	106.6	0
1277621	69597	BMLED	20081210AAE	KUSU-FM	UTAH STATE UNIVERSITY OF AGRICULTURE AND MECHANICAL ARTS	C	LOGAN	UT	LIC	90	1841	218	1	114.6	0
1228376	93901	BMPED	20080114AAL	KTYN	INTERMOUNTIAN PUBLIC RADIO	A	THAYNE	WY	CP MOD	0.077	2732	220	1	116.7	0
1134360	56352	BLED	20060621AAE	KBYR-FM	BRIGHAM YOUNG UNIVERSITY - IDAHO	A	REXBURG	ID	LIC	1	1531	218	1	121.8	0

MICHAUD CREEK QUADRANGLE
IDAHO
7.5 MINUTE SERIES (TOPOGRAPHIC)

3569 IV NW
(POCATELLO NORTH)



'Michaud Creek; ID'; Scale: 1" = 0.379Mi 610Mt 2,000Ft, 1 Mi = 2.640" , 1 cm = 240Mt

