

Non-Interference Compliance

Regarding Facility id 152582

Channel 294

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.

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
1448944	BLH20111007ADO	KQEO	62.5	62.5
Minimum F(50,50) Contour of Adjacent Station within Proposed Translator's Standard Interfering Contour				62.5

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 **62.5 dBμ**, this makes the proposed translator's worst-case interfering contour **102.5 dBμ**. By the free-space equation, this contour is calculated to extend a maximum of **831.7 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: SCA
Antenna Model: CA5-FM/CP/RM
CORAGL: 58 m
Maximum ERP: 0.25 kW
Interfering Contour: 102.5 dBμ
Max Int. Contour Distance: 831.7 m

Adjacent Channel Study **For Station K294CD, Facility_id: 152582**

Co-channel through third adjacent:

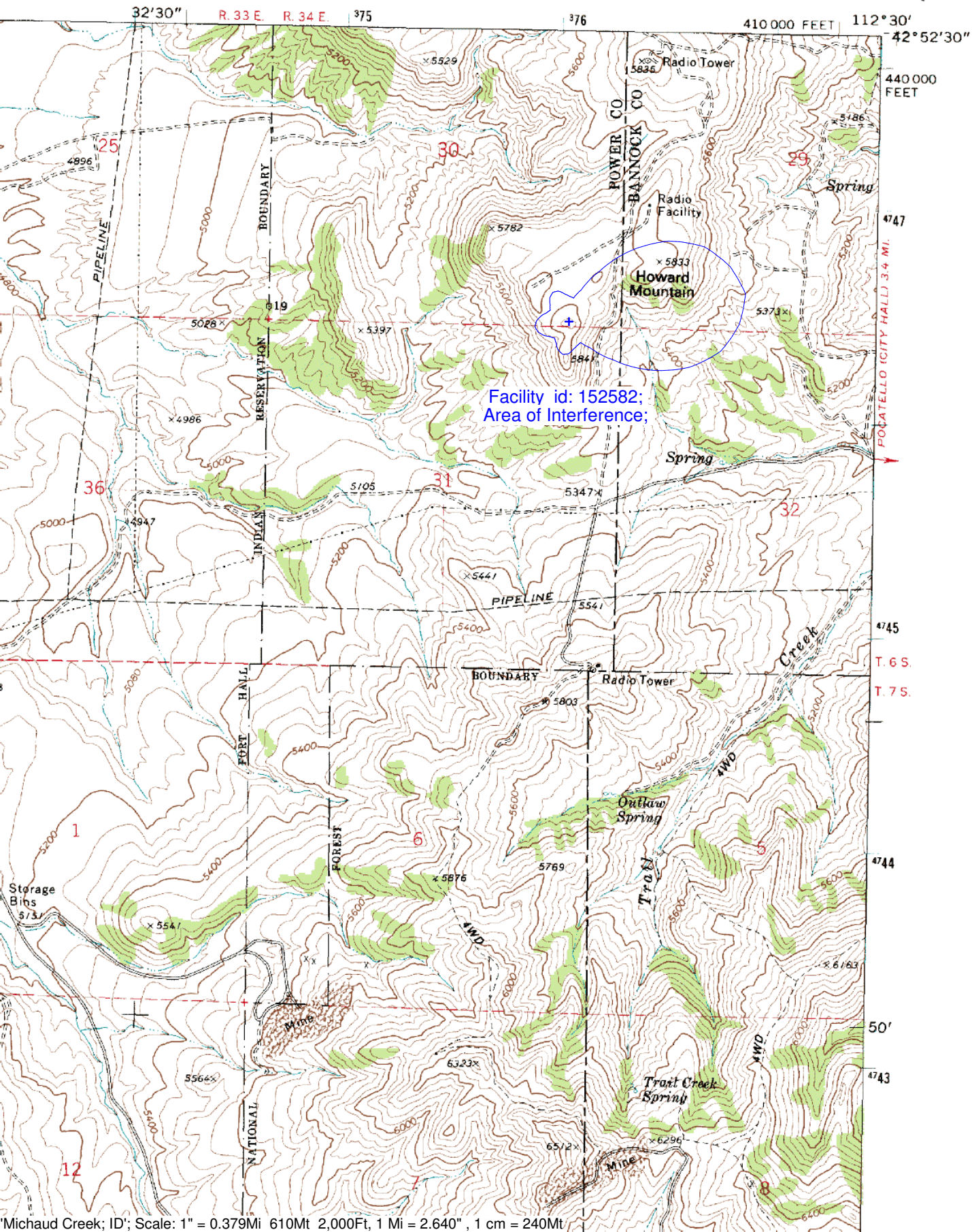
App_id	Fac_id	File_Number	Call	Licensee	Class	City	State	Status	ERP	RCMSL	Chan	Adj	Dist	Overlap
1457579	178842	BLFTB-20111109AVG	KQEO-FM1	SANDHILL MEDIA CORPORATION	D	POCATELLO	ID	LIC	2.2	1447	296	2	6	0.7206
1448944	87926	BLH-20111007ADO	KQEO	SANDHILL MEDIA CORPORATION	C1	IDAHO FALLS	ID	LIC	100	1789	296	2	68.3	0.7206
291862	8807	BLFT-145	K296AQ	CARIBOU COUNTY TV	D	SODA SPRINGS, E	ID	LIC	0.109	2148	296	2	72.9	0
299078	8809	BLFT-144	K292AR	CARIBOU COUNTY TV	D	SODA SPRINGS, E	ID	LIC	0.109	2148	292	2	72.9	0
1295850	150128	BMLFT-20090203ABJ	K294BP	IDAHO WIRELESS CORPORATION	D	IDAHO FALLS	ID	LIC	0.211	1479	294	0	79.5	0
429141	73616	BLH-19991215ABL	KQEZ	RJ BROADCASTING LS, LLC	C1	SHELLEY	ID	LIC	100	1741	292	2	91.3	0
1560902	12665	BPH-20130626ABK	KGTM	RJ BROADCASTING LS, LLC	C1	REXBURG	ID	CP	100	1741	292	2	91.3	0
211572	56346	BLFT-19950725TE	K297AB	BRIGHAM YOUNG UNIVERSITY - IDAHO	D	BURLEY	ID	LIC	0.133	2506	297	3	106.5	0
1006847	67744	BLH-20040809AAC	KKMV	LEE FAMILY BROADCASTING, INC.	C0	RUPERT	ID	LIC	25	2550	291	3	106.6	0
1560900	67744	BPH-20130626ABI	KKMV	LEE FAMILY BROADCASTING, INC.	C	RUPERT	ID	CP	60	2550	291	3	106.6	0
270670	84016	BLFT-19980706TC	K292EY	LOWER STAR VALLEY TV ASSOCIATION	D	FREEDOM	WY	LIC	0.01	2720	292	2	116.7	0
215623	38926	BLFT-19951023TH	K296EJ	LOWER STAR VALLEY T.V. ASSOCIATION	D	FREEDOM	WY	LIC	0.01	1963	296	2	118.9	0
1451851	21607	BLH-20111018APA	KEGH	SLC DIVESTITURE TRUST II (JIM BURGOYNE,	C1	BRIGHAM CITY	UT	LIC	5.2	2145	295	1	122.2	0
1158028	166021	BLH-20061103AAJ	KYUN	LOCALLY OWNED RADIO, LLC	C	HAILEY	ID	LIC	97	2000	294	0	140.8	0
638510	145943	BNPFT-20030314BCX	NEW	TED W. AUSTIN, JR.	D	HOBACK JUNCTION	WY	APP	0.01	2752	294	0	151.7	0

Intermediate Frequencies (53 and 54 channels difference):

App_id	Fac_id	File_Number	Call	Licensee	Class	City	State	Status	ERP	RCMSL	Channel	Adj	Dist	Clr
1145621	22195	BMLH-20060831AAG	KID-FM	RICH BROADCASTING IDAHO LS, LLC	C	IDAHO FALLS	ID	LIC	100	2026	241	53	71.6	42.6

MICHAUD CREEK QUADRANGLE IDAHO 7.5 MINUTE SERIES (TOPOGRAPHIC)

3569 IV NW
(POCATELLO NORTH)





250 yds

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