

[Exhibit 13]

Non-Interference Compliance

Regarding Facility id 83035

Channel 230

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 dB μ 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
208463	BLH19950426KA	KGGL	64.7	64.7
	Minimum F(50,50) Contour of Adjacent Station within Proposed Translator's Standard Interfering Contour			64.7

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 **64.7 dBμ**, this makes the proposed translator's worst-case interfering contour **104.7 dBμ**. By the free-space equation, this contour is calculated to extend a maximum of **645.6 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).

Note: The only structures within the zone of predicted interference are unoccupied communications buildings so 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: BKY3P @ 135°
CORAGL: 20 m
Maximum ERP: 0.25 kW
Interfering Contour: 104.7 dBμ
Max Int. Contour Distance: 645.6 m

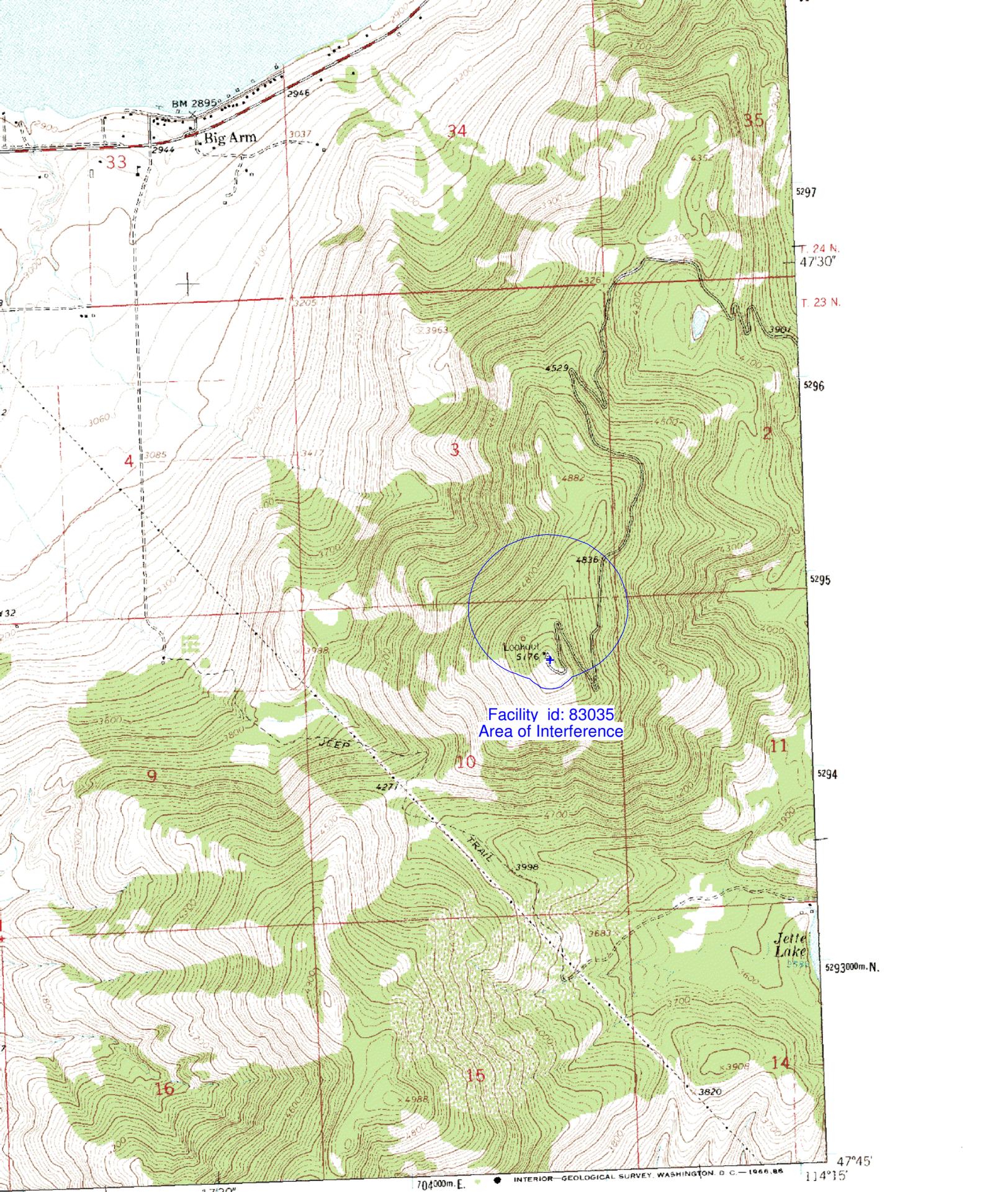
Adjacent Channel Study For Station K230BC, Facility_id: 83035

Co-channel through third adjacent:

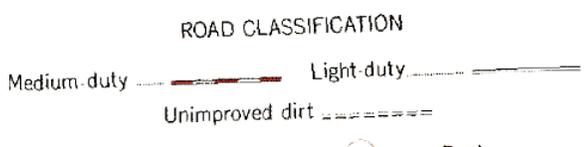
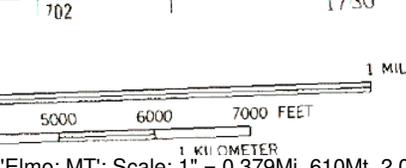
App_id	Fac_id	File_Number	Call	Licensee	Class	City	State	Status	ERP	RCAMSL	Char	Adj	Dist	Overlap
208463	63874	BLH-19950426KA	KGGL	CCR-MISSOULA IV, LLC	C	MISSOULA	MT	LIC	43	2338	227	3	84.9	0.5522
1654301	183365	BLH-20141009ABG	KOLK	KOFI, INC.	C3	LAKESIDE	MT	LIC	7.1	1228	232	2	35.6	0
1795045	148354	BLFT-20181025ABF	K228FM	HI-LINE RADIO FELLOWSHIP, INC	D	WHITEFISH	MT	LIC	0.25	2095	228	2	81.7	0
1641144	57331	BLFT-20140613AAW	K229BU	EDUCATIONAL MEDIA FOUNDAT	D	MISSOULA	MT	LIC	0.18	2124	229	1	86	0
1675856	146259	BLFT-20150408ADF	K232CI	EDGEWATER BROADCASTING, II	D	MISSOULA	MT	LIC	0.25	1902	232	2	110.3	0
1346138	164302	BLH-20091204AAI	KZXT	ANDERSON RADIO BROADCAST	A	EUREKA	MT	LIC	2	943	228	2	137.1	0
257928	81886	BLH-19971128KD	KTZZ	JEANNINE M. MASON	C1	CONRAD	MT	LIC	100	1309	229	1	184.5	0
418814	49244	BLH-19991103AAZ	KHTQ	QUEENB RADIO, INC.	C	HAYDEN	ID	LIC	83	1475	233	3	202	0
117711	7912	BLH-19880902KA	KOPR	BUTTE BROADCASTING INCORP	C	BUTTE	MT	LIC	58	2545	231	1	240.6	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
1798222	141979	BPFT-20181231AAG	K284CV	EDGEWATER BROADCASTING, II	D	WHITEFISH	MT	CP	0.125	2058	284	54	27.7	17.7
1796794	141979	BLFT-20181129AAU	K284CV	EDGEWATER BROADCASTING, II	D	WHITEFISH	MT	LIC	0.25	1203	284	54	74.9	64.9



Facility id: 83035
Area of Interference



(POLSON)
3179 11 NW

