

[Exhibit 12]

Non-Interference Compliance

Regarding Facility id 151502

Channel 247

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.

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
1118146	BLH20060309AED	KDAG	69.5	69.5
235743	BLFT19961120TF	K249DE	77.8	76.3
4530	BLH19780921AG	KISZ-FM	88.1	87.8
Minimum F(50,50) Contour of Adjacent Station within Proposed Translator's Standard Interfering Contour				69.5

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 **69.5 dBμ**, this makes the proposed translator's worst-case interfering contour **109.5 dBμ**. By the free-space equation, this contour is calculated to extend a maximum of **112.7 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: FMV
CORAGL: 15 m
Maximum ERP: 0.023 kW
Interfering Contour: 109.5 dBμ
Max Int. Contour Distance: 112.7 m

Adjacent Channel Study **For Station K247AU, Facility_id: 151502**

Co-channel through third adjacent:

Application_id	Facility_id	Prefix	ARN	Call	Licensee	Class	City	State	Status	ERP	RCAMSL	Channel	Adj	Dist	Overlap
235743	76343	BLFT	19961120TF	K249DE	KISZ, LLC	D	DURANGO	CO	LIC	0.25	2728	249	2	10.6	0.1373
4530	54005	BLH	19780921AG	KISZ-FM	KISZ LLC	C	CORTEZ	CO	LIC	100	3104	250	3	25.1	0.1373
1118146	29519	BLH	20060309AED	KDAG	CAPSTAR TX LIMITED PARTNERSHIP	C0	FARMINGTON	NM	LIC	100	2129	245	2	49.9	0.1373
639789	147173	BNPFT	20030317FKC	NEW	RADIO ASSIST MINISTRY, INC.	D	CORTEZ	CO	APP	0.092	1948.5	248	1	58.9	0
682094	146590	BNPFT	20030828AFY	K246AN	NATIVE AMERICAN CHRISTIAN VOICE, INC.	D	SILVERTON	CO	CP	0.25	2837	246	1	64.4	0
283410	85691	BLFTB	19990331TG	KISZ-FM1	KISZ L.L.C.	D	FARMINGTON	NM	LIC	5	1800	250	3	69.4	0
194064	756	BLFT	19940121TF	K248AB	ALAN E. KARSH, ESQ.,	D	TELLURIDE	CO	LIC	0.083	2755	248	1	76.5	0
199422	22176	BLFT	19940519TE	K248AF	ROBERT MELTZER	D	PAGOSA SPRINGS	CO	LIC	0.036	2289	248	1	79.2	0
639829	147205	BNPFT	20030314BKO	NEW	PROFESSIONAL ANTENNA, TOWER AND TRANSL	D	OURAY	CO	APP	0.25	2849	244	3	88.9	0



Facility id: 151502;
Area of Interference;

ROAD CLASSIFICATION

- Primary highway, hard surface
- Secondary highway, hard surface
- Light-duty road, hard or improved surface
- Unimproved road
- Interstate Route
- U. S. Route
- State Route

DURANGO WEST, COLO.
37107-C8-TF-024

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DMA 4458 IV SW-SERIES V877