

Non-Interference Compliance

Regarding Facility id 142743

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.

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
650054	BNPFT20030317ILV	NEW	64.5	64.4
75986	BLFT19850208TA	K296AW	63.3	63.3
Minimum F(50,50) Contour of Adjacent Station within Proposed Translator's Standard Interfering Contour				63.3

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 **63.3 dBμ**, this makes the proposed translator's worst-case interfering contour **103.3 dBμ**. By the free-space equation, this contour is calculated to extend a maximum of **214.5 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: CL-FM 360°
CORAGL: 10 m
Maximum ERP: 0.02 kW
Interfering Contour: 103.3 dBμ
Max Int. Contour Distance: 214.5 m

Adjacent Channel Study **For Station NEW, Facility_id: 142743**

Co-channel through third adjacent:

App_id	Fac_id	File_Number	Call	Licensee	Class	City	State	Status	ERP	RCAMSL	Chan	Adj	Dist	Overlap
650054	156762	BNPFT-20030317ILV	NEW	RAIDER COMMUNICATIONS, INC.	D	GLIDE	OR	APP	0.01	1103	291	3	10.7	0.0179
75986	17419	BLFT-19850208TA	K296AW	OREGON ST BD OF HIGHER ED FOR UNIV OF OR	D	SUTHERLIN-OAKLA	OR	LIC	0.053	1237	296	2	22.4	0.0179
981770	135480	BLL-20040309AAC	KLLF-LP	AMAZING LOVE, INC.	L1	ROSEBURG	OR	LIC	0	331	294	0	9.6	0
650108	156814	BNPFT-20030317IQQ	NEW	RAIDER COMMUNICATIONS, INC.	D	ROSEBURG	OR	APP	0.034	417	292	2	11.2	0
649997	156705	BNPFT-20030317IHR	NEW	RAIDER COMMUNICATIONS, INC.	D	ELKTON/DAYS CRE	OR	APP	0.013	652	292	2	28	0
977773	135061	BLL-20040212ADP	KPOL-LP	KEEP PRAISING OUR LORD INC.	L1	CANYONVILLE	OR	LIC	0	307	295	1	31.6	0
650556	157212	BNPFT-20030317KJW	NEW	RAIDER COMMUNICATIONS, INC.	D	RIDDLE/DAYS CRE	OR	APP	0.01	1042	291	3	35.1	0
650594	157249	BNPFT-20030317KOZ	NEW	RAIDER COMMUNICATIONS, INC.	D	RIDDLE/DAYS CRE	OR	APP	0.01	1042	293	1	35.1	0
1024238	135431	BLL-20041101AAA	KSOW-LP	REAL RURAL RADIO	L1	COTTAGE GROVE	OR	LIC	0	245	294	0	61.1	0
153819	5210	BLH-19901026KB	KOOS	BICOASTAL MEDIA LICENSES III, LLC	C1	NORTH BEND	OR	LIC	51	269	297	3	85.7	0

