

Non-Interference Compliance

Regarding Facility id 91003

Channel 218

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
117546	BLFT19880826TE	K220BZ	113.9	113.9
Minimum F(50,50) Contour of Adjacent Station within Proposed Translator's Standard Interfering Contour				113.9

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 **113.9 dBμ**, this makes the proposed translator's worst-case interfering contour **153.9 dBμ**. By the free-space equation, this contour is calculated to extend a maximum of **0.4 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: The only structure within the zone of predicted interference is an unoccupied communications building 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:	BEX
Antenna Model:	TFLBDI
CORAGL:	9 m
Maximum ERP:	0.01 kW
Interfering Contour:	153.9 dBμ
Max Int. Contour Distance:	0.4 m

Adjacent Channel Study **For Station K218FK, Facility_id: 91003**

Co-channel through third adjacent:

App_id	Fac_id	File_Number	Call	Licensee	Class	City	State	Status	ERP	RCAMSL	Char	Adj	Dist	Overlap
117546	62960	BLFT-19880826TE	K220BZ	SOUTHERN OREGON UNIVERSIT	D	HAPPY CAMP	CA	LIC	0.085	1420	220	2	0.1	0.0438
116408	63010	BLFT-19880801TI	K216BD	SOUTHERN OREGON UNIVERSIT	D	FORT JONES, ET	CA	LIC	0.295	1864	216	2	49.5	0
144371	43920	BLFT-19900129TO	K221BK	BUFFALO BROADCASTING, LLC	D	ETNA	CA	LIC	0.037	1693	221	3	49.5	0
1808992	63010	BPFT-20190822AAO	K216BD	SOUTHERN OREGON UNIVERSIT	D	FORT JONES, ET	CA	CP	0.18	1864	216	2	49.6	0
73351	62996	BLFT-19841016TP	K215AR	SOUTHERN OREGON UNIVERSIT	D	CAVE JUNCTION,	OR	LIC	0.078	1226	215	3	51.4	0
1011150	90439	BLFT-20040901AAH	K218DP	CALVARY CHAPEL OF TWIN FALI	D	CAVE JUNCTION	OR	LIC	0.01	1244	218	0	51.4	0
999000	142073	BLFT-20040617AFU	K221ED	THEDOVE MEDIA, INC.	D	MEDFORD AND C	OR	LIC	0.065	869	221	3	63.6	0
215279	62967	BLED-19951012KB	KNYR	SOUTHERN OREGON UNIVERSIT	C2	YREKA	CA	LIC	0.4	1817	217	1	66.4	0
212679	17460	BLED-19950811KB	KDOV	THEDOVE MEDIA, INC.	C2	MEDFORD	OR	LIC	26	588	219	1	66.5	0
599362	1698	BLED-20020402AAE	KLXG	EDUCATIONAL MEDIA FOUNDAT	A	GRANTS PASS	OR	LIC	0.5	508	216	2	67.5	0
1229589	60310	BLFT-20080129AAI	K221CP	MAPLETON LICENSE OF MEDFOI	D	GRANTS PASS	OR	LIC	0.2	992	221	3	70.3	0
1481231	28112	BLED-20110712AAAY	KHSR	HUMBOLDT STATE UNIVERSITY	A	CRESCENT CITY	CA	LIC	4.5	73	220	2	70.4	0
1684426	176094	BLED-20150731AQW	KHEC	SOUTHERN OREGON UNIVERSIT	A	CRESCENT CITY	CA	LIC	0.125	17	216	2	71.2	0
686219	62069	BLFT-20030915AGM	K216FE	THE ONDAS DE VIDA NETWORK,	D	CRESCENT CITY,	CA	LIC	0.162	27.7	216	2	71.2	0
1551287	88012	BLFT-20130417ABZ	K216DR	EDUCATIONAL MEDIA FOUNDAT	D	CENTRAL POINT	OR	LIC	0.01	1095	216	2	72.3	0
1554580	172931	BLED-20130513ADJ	KDOB	THEDOVE MEDIA, INC.	A	BROOKINGS	OR	LIC	0.43	549	218	0	83.6	0
26236	27612	BLED-19801231AM	KIDE	HOOPA VALLEY TRIBE	A	HOOPA	CA	LIC	0.195	136	217	1	92.5	0
1791773	176394	BPED-20180910AAE	KUSF	COMMON FREQUENCY, INC.	A	GLENDALE	OR	CP	0.07	1571	217	1	93.9	0

1367' N, NW
(DEADMAN POINT)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

123°22'30"
41°52'30"

4700000E

471

R 7 E

R 8 E

472

20'

473

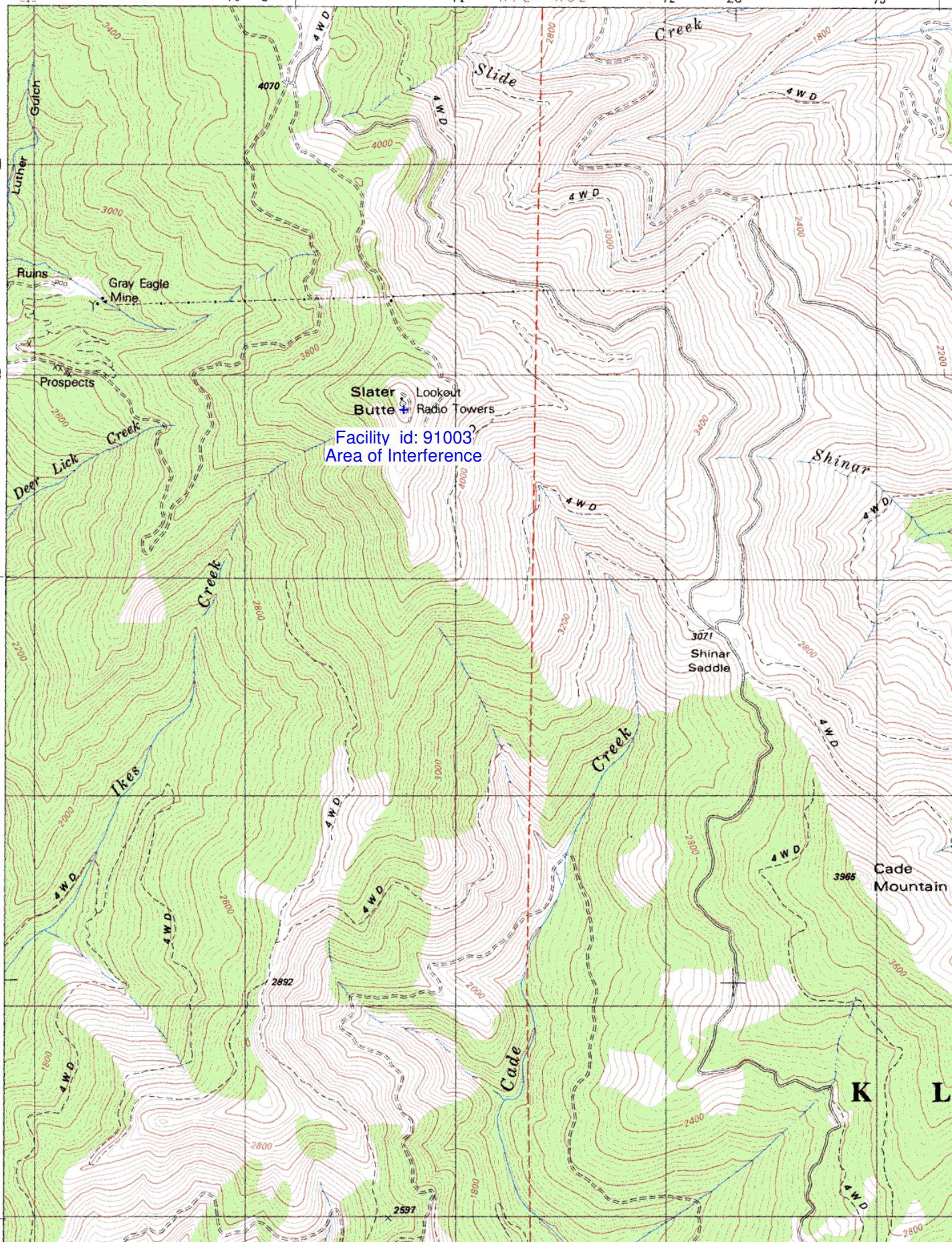
4635000N

4634

4632

4631

50'



Slater Butte + Lookout Butte
Radio Towers
Facility id: 91003
Area of Interference

