

Non-Interference Compliance

Regarding Facility id 147348

Channel 269

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.

Page 5 of this exhibit is a high resolution aerial photo of the vicinity surrounding the proposed translator's tower site provided by the U.S. Geological Survey's National Aerial Photography Program. It has been included to provide clarification of the nature of the buildings in the vicinity.

Pages 6 through 8 are photographs of the proposed tower site, taken from the American Towers website, showing the access road and the unoccupied, support buildings associated with the towers at the transmit site.

Note: The USGS Quad and aerial photo indicate the presence of a minor access road and several buildings within the zone of predicted interference. Three additional photos of the transmit site, have been provided to demonstrate that the buildings are unoccupied and are equipment buildings only. The road is not a major road but only a minor access road.

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
	BLFTB20060209AA			
1106773	G	KDFC-FM2	61.2	61.2
289236	BLH6225	KIOI	135.3	132.6
669954	BMLH20030711ACC	KDFC-FM	84.2	84.1
Minimum F(50,50) Contour of Adjacent Station within Proposed Translator's Standard Interfering Contour				61.2

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 **61.2 dBμ**, this makes the proposed translator's worst-case interfering contour **101.2 dBμ**. By the free-space equation, this contour is calculated to extend a maximum of **193.2 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.

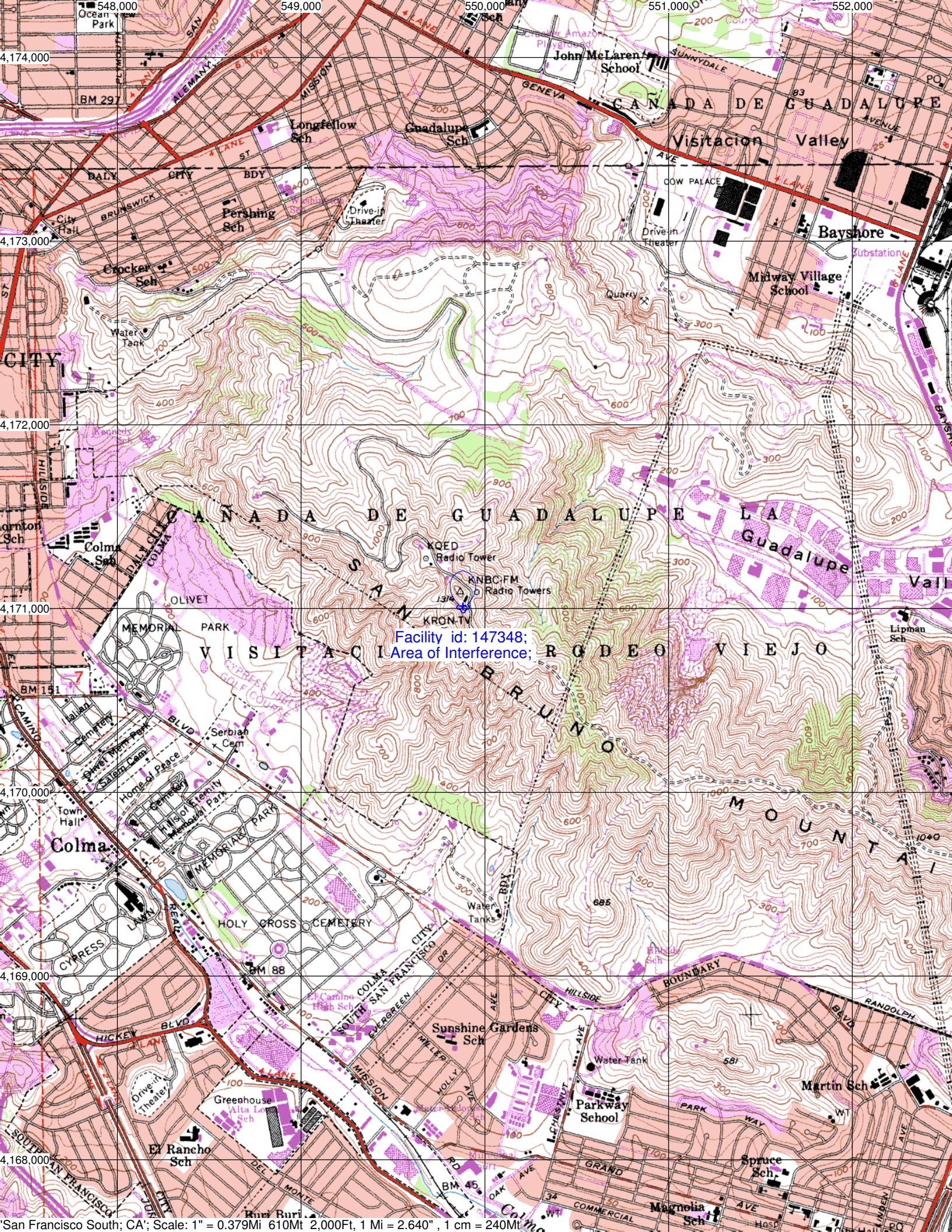
Note: The USGS Quad and aerial photo indicate the presence of a minor access road and several buildings within the zone of predicted interference. Three additional photos of the transmit site, have been provided to demonstrate that the buildings are unoccupied and are equipment buildings only. The road is not a major road but only a minor access road.

Antenna Manufacturer:	SCA
Antenna Model:	CA5-FM/CP/RM
CORAGL:	49 m
Maximum ERP:	0.01 kW
Interfering Contour:	101.2 dBμ
Max Int. Contour Distance:	193.2 m

Adjacent Channel Study
For Station K269FB, Facility_id: 147348

Co-channel through third adjacent:

Application_id	Facility_id	Prefix	ARN	Call	Licensee	Class	City	State	Status	ERP	RCAMSL	Channel	Adj	Dist	Overlap
289236	34930	BLH	6225	KIOI		B	SAN FRANCISCO	CA	LIC	125	418	267	2	0.4	0.0414
149198	65486	BXLH	19900604KB	KDFC-FM	BONNEVILLE HOLDING COMPANY	B	SAN FRANCISCO	CA	LIC	16	355	271	2	18.9	0.0414
669954	65486	BMLH	20030711ACC	KDFC-FM	BONNEVILLE HOLDING COMPANY	B	SAN FRANCISCO	CA	LIC	33	386	271	2	19.1	0.0414
1106773	137626	BLFTB	20060209AAG	KDFC-FM2	BONNEVILLE HOLDING COMPANY	D	SAN FRANCISCO	CA	LIC	1	1122	271	2	50.3	0.0099
579645	67660	BLFTB	20010828ABE	KKIQ-FM1	KKIQ, INC.	D	HAYWARD	CA	LIC	0.85	203	269	0	33.5	0
283181	90647	BLFTB	19990324TB	KDFC-FM1	BONNEVILLE HOLDING COMPANY	D	LAFAYETTE	CA	LIC	1.2	443	271	2	38.8	0
282305	4085	BLFTB	19990225UC	KIOI-FM1	CHANCELLOR MEDIA CORPORATION OF CA.	D	WALNUT CREEK	CA	LIC	0.15	427	267	2	38.8	0
202118	67819	BLFTB	19940829TC	KKIQ-FM3	KKIQ, INC.	D	WALNUT CREEK	CA	LIC	1.2	225	269	0	39.3	0
282304	90740	BLFTB	19990225UB	KIOI-FM2	CHANCELLOR MEDIA CORPORATION OF CA.	D	PLEASANTON	CA	LIC	0.9	543	267	2	44.3	0
144451	67818	BMLH	19900130KA	KKIQ	KKIQ, INC.	A	LIVERMORE	CA	LIC	4.5	631	269	0	68.8	0
188018	22891	BLFTB	19930712TD	KXFX-FM1	AMATURO GROUP OF SANTA ROSA, L.L.C.	D	PETALUMA	CA	LIC	0.045	579	269	0	73.1	0
1168541	22890	BPH	20070126ACZ	KXFX	MAVERICK MEDIA OF SANTA ROSA LICENSE LLC	B1	SANTA ROSA	CA	APP	2.2	546	269	0	93.5	0
176231	22890	BLH	19920818KG	KXFX	AMATURO GROUP OF SANTA ROSA, L.L.C.	B1	SANTA ROSA	CA	LIC	2.2	546	269	0	93.6	0
1167725	52516	BPH	20070126ACY	KMJE	RESULTS RADIO OF CHICO LICENSEE, LLC	A	WOODLAND	CA	APP	6	67	268	1	116.7	0





► Site Name: **San Bruno Mountain (tower 9)** ► Site Number: **8250**

[Prev](#)[Close](#)**Image:** SW TOWER FACE[Ok](#)[Print](#)[Next](#)

► Site Name: **San Bruno Mountain (tower 9)** ► Site Number: **8250**

[Prev](#)[Close](#)

Image: COMPOUND VIEW FROM THE SOUTH

[Ok](#)[Print](#)[Next](#)

► Site Name: **San Bruno Mountain (tower 9)** ► Site Number: **8250**

Close

Image: ACCESS ROAD VIEW TOWARD TOWER

Ok

Print

Next

