

Minor Modification of Licensed Facility

This minor modification application exhibit demonstrates compliance with all engineering standards and assignment requirements specified in the applicable FCC rules and regulations. This application proposes a change in the ERP and a minor correction in the site elevation and the antenna COR AMSL height as is indicated below:

	Licensed	Minor Mod
Channel / Class	228D	228D
ASRN	1208672	1208672
Geographical Coordinates (NAD 83)	36 30 21.8 121 43 07.8	36 30 21.8 121 43 07.8
Site AMSL	652.0 m	652.2 m
Tower AGL	15.2 m	15.2 m
COR AGL	12.0 m	12.0 m
COR AMSL	664.0 m	664.2 m
HAAT	299.2 m	299.4 m
ERP	0.099 kW (H&V, non-DA)	0.130 kW (H&V, non-DA)
ANTENNA	Nicom BKG77/1	Nicom BKG77/1

GLOBE terrain data

Tabulation of HAAT / ERP / distance to 60 dBu contour

CH 228 36 30 21.8 / 121 43 07.8 0.130 kW ERP (H&V, DA) 664.2 m COR AMSL 299.4 m HAAT

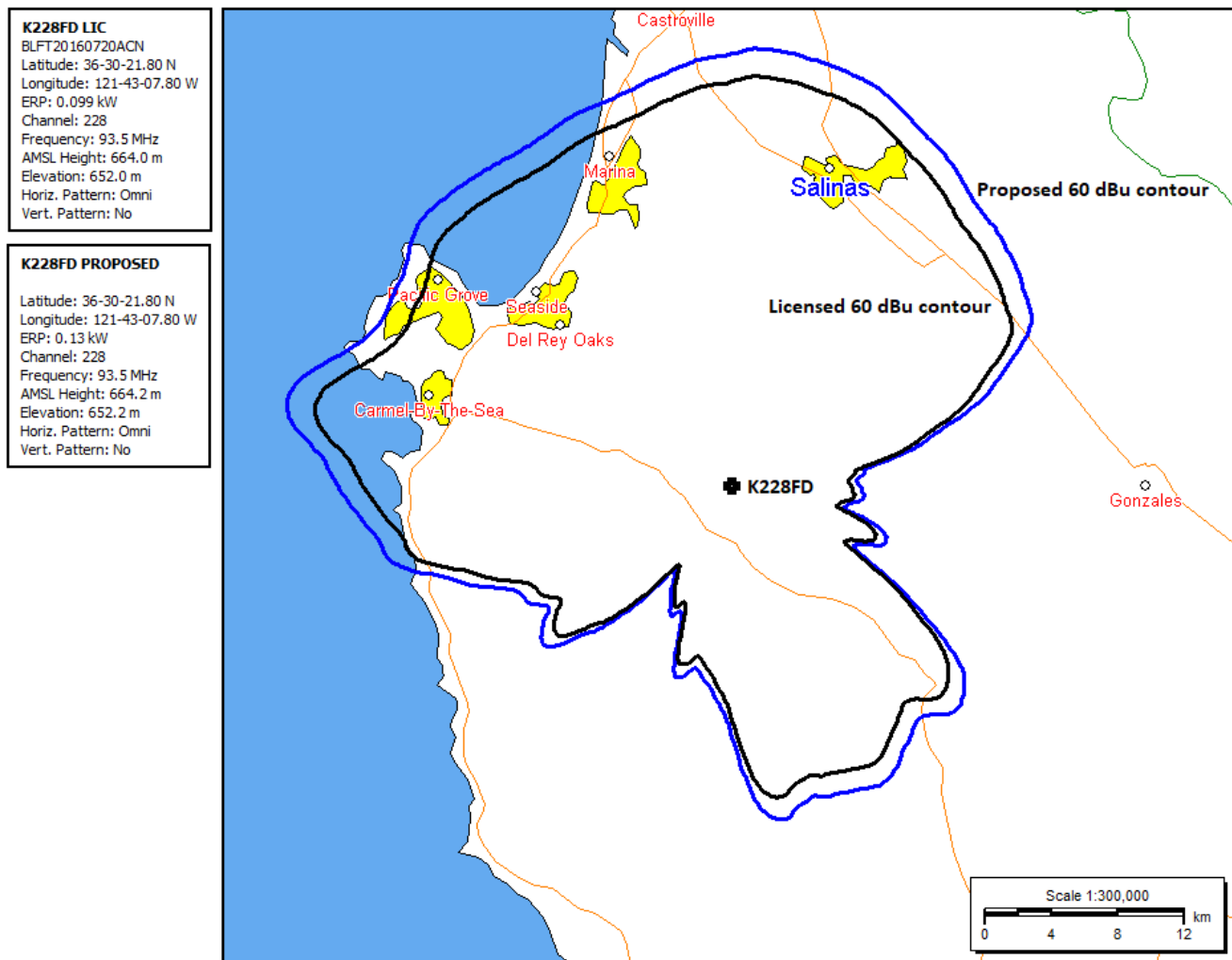
Azi.	AV EL	HAAT	ERP kW	dBk	Field	60-F5
000	127.0	537.2	0.1300	-8.86	1.000	25.86
010	122.0	542.2	0.1300	-8.86	1.000	25.99
020	145.9	518.3	0.1300	-8.86	1.000	25.31
030	196.2	468.0	0.1300	-8.86	1.000	23.81
040	253.4	410.8	0.1300	-8.86	1.000	22.33
050	283.6	380.6	0.1300	-8.86	1.000	21.55
060	322.9	341.3	0.1300	-8.86	1.000	20.49
070	454.7	209.5	0.1300	-8.86	1.000	15.93
080	596.5	67.7	0.1300	-8.86	1.000	9.11
090	616.6	47.6	0.1300	-8.86	1.000	7.55
100	620.9	43.3	0.1300	-8.86	1.000	7.17
110	583.3	80.9	0.1300	-8.86	1.000	9.93
120	569.3	94.9	0.1300	-8.86	1.000	10.72
130	399.3	264.9	0.1300	-8.86	1.000	18.06
140	404.6	259.6	0.1300	-8.86	1.000	17.86
150	356.5	307.7	0.1300	-8.86	1.000	19.49
160	356.8	307.4	0.1300	-8.86	1.000	19.49
170	336.8	327.4	0.1300	-8.86	1.000	20.10
180	464.7	199.5	0.1300	-8.86	1.000	15.53
190	547.7	116.5	0.1300	-8.86	1.000	11.80
200	579.0	85.2	0.1300	-8.86	1.000	10.19
210	609.1	55.1	0.1300	-8.86	1.000	8.21
220	584.8	79.4	0.1300	-8.86	1.000	9.84
230	481.0	183.2	0.1300	-8.86	1.000	14.90
240	498.7	165.5	0.1300	-8.86	1.000	14.15
250	426.6	237.6	0.1300	-8.86	1.000	17.05
260	291.9	372.3	0.1300	-8.86	1.000	21.33
270	202.3	461.9	0.1300	-8.86	1.000	23.64
280	80.8	583.4	0.1300	-8.86	1.000	27.05
290	181.5	482.7	0.1300	-8.86	1.000	24.24
300	215.7	448.5	0.1300	-8.86	1.000	23.28
310	176.6	487.6	0.1300	-8.86	1.000	24.39
320	187.5	476.7	0.1300	-8.86	1.000	24.06
330	198.7	465.5	0.1300	-8.86	1.000	23.74
340	182.4	481.8	0.1300	-8.86	1.000	24.21
350	157.8	506.4	0.1300	-8.86	1.000	24.96

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(yellow highlighted values establish average HAAT)

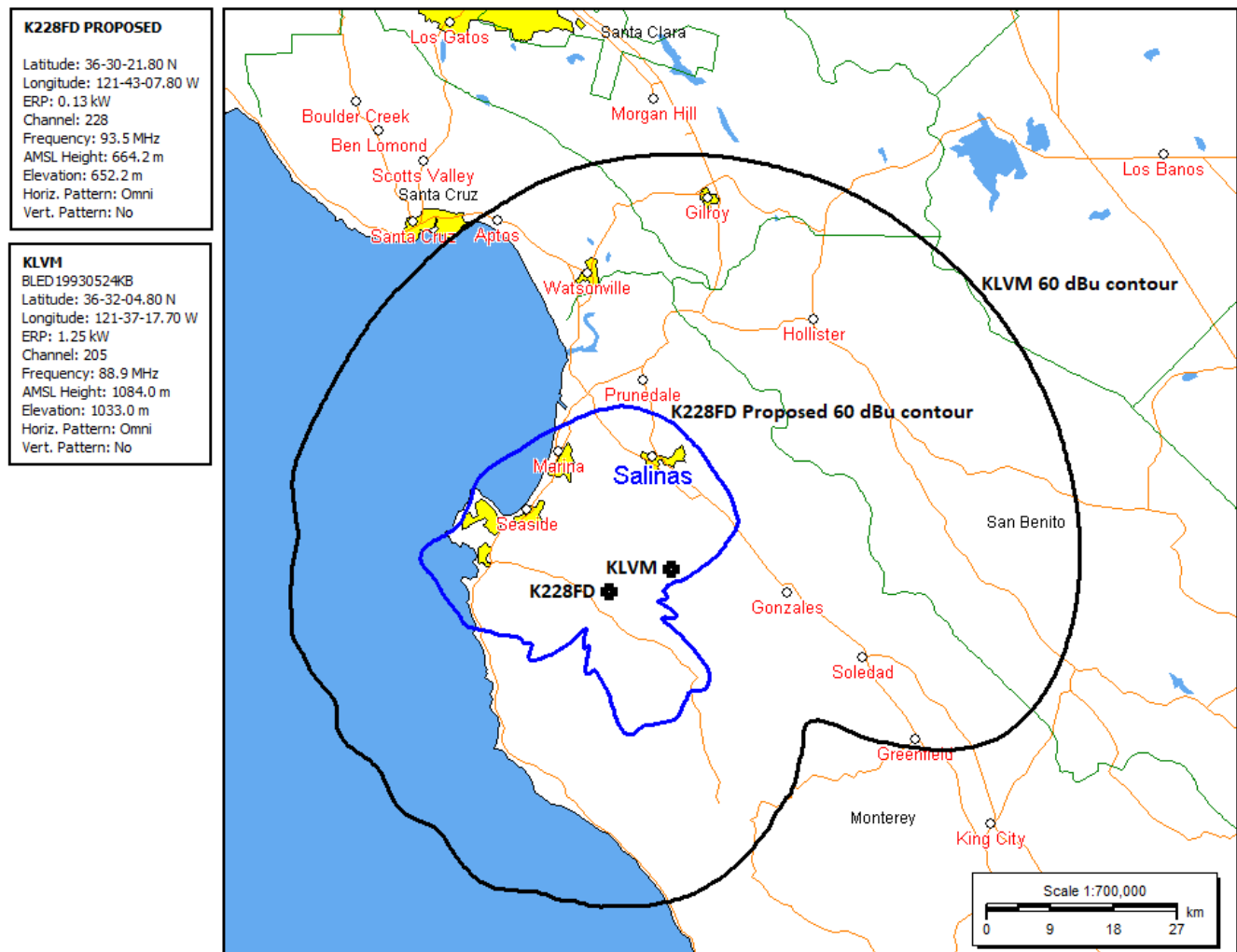
60 dBu contour coverage map

The minor modification application 60 dBu contour will continue to have overlap with the licensed 60 dBu contour.



Fill-in Translator

K228FD will operate as a fill-in of KLVM, CH 205B, Santa Cruz, CA (Facility ID 51718). The below map demonstrates that the proposed 60 dBu contour of K228FD will be completely encompassed within the 60 dBu contour of KLVM and thus meets the required criteria for fill-in status.



GLOBE terrain data

Interference Study

CH 228 36 30 21.8 / 121 43 07.8 0.130 kW ERP (H&V, DA) 664.2 m COR AMSL 299.4 m HAAT

CH CITY	CALL	TYPE STATE	AZI. <--	DIST FILE #	LAT. LNG.	Pwr (kW) HAAT (M)	INT (km) COR (M)	PRO (km) LICENSEE	*IN* (Overlap in km)	*OUT*
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Reference station:

228D	K228FD	LIC	0.0	0.00	36 30 21.80	0.099				
Monterey		CA	180.0	BLFT20160720ACN	121 43 07.80		664	Educational Media Foundation		

Co-channel, 1st, 2nd, & 3rd adjacent channel relationships:

226A	KXSM	LIC	97.7	37.92	36 27 34.10	2.500	3.1	41.8	21.6	-4.6
Chualar		CA	278.0	BLH20170531ADD	121 17 58.50	89	418	Lazer Licenses, LLC		
227B	KRZZ	LIC	334.4	145.70	37 41 12.80	6.000	80.8	67.3	41.0	25.8
San Francisco		CA	154.0	BLH20110105ABJ	122 26 06.90	415	458	Krzz Licensing, LLC		
227B	KZOZ	LIC	142.8	159.13	35 21 39.90	23.000	87.3	72.8	52.3	45.1
San Luis Obispo		CA	323.4	BLH19961226KC	120 39 24.60	472	808	Agm California, Inc.		
227D	KRZZ-FM1	LIC	353.4	153.71	37 52 54.70	0.190	54.5	36.0	73.7	77.5
Pleasanton, Etc.		CA	173.3	BLFTB19900803TC	121 55 08.80		1155	Krzz Licensing, LLC		
229B1	KXZM	LIC	346.9	74.50	37 09 34.80	0.410	41.4	27.2	12.6	-2.0
Felton		CA	166.8	BLH20120316ADG	121 54 35.80	690	1038	Lazer Licenses, LLC		
229B	KSKS	LIC	72.0	213.51	37 04 38.80	68.000	143.1	115.1	50.4	57.0
Fresno		CA	253.3	BMLH20050425ABM	119 26 04.50	580	1404	Cumulus Licensing LLC		
230B1	KEXA	LIC	107.2	47.13	36 22 47.80	5.400	4.3	57.4	27.0	-11.3
King City		CA	287.5	BLH19871223KC	121 13 00.70	214	458	Inspiration Media Network,		
231B	KPFA	LIC	343.7	157.28	37 51 54.70	59.000	10.3	90.8	122.1	64.4
Berkeley		CA	163.4	BLED19791108AE	122 13 15.80	405	534	Pacifica Foundation, Inc.		

I.F. relationships:

282A	KHIP	LIC	44.5	25.29	36 40 05.80	2.600	0.0	0.0	9.5R	15.8M
Gonzales		CA	224.6	BMLH19980709KB	121 31 12.70	155	435	Smg-Monterey, LLC		

GLOBE terrain data

Interference Study

K228FD as proposed is located within the protected contour of the following second adjacent facilities:

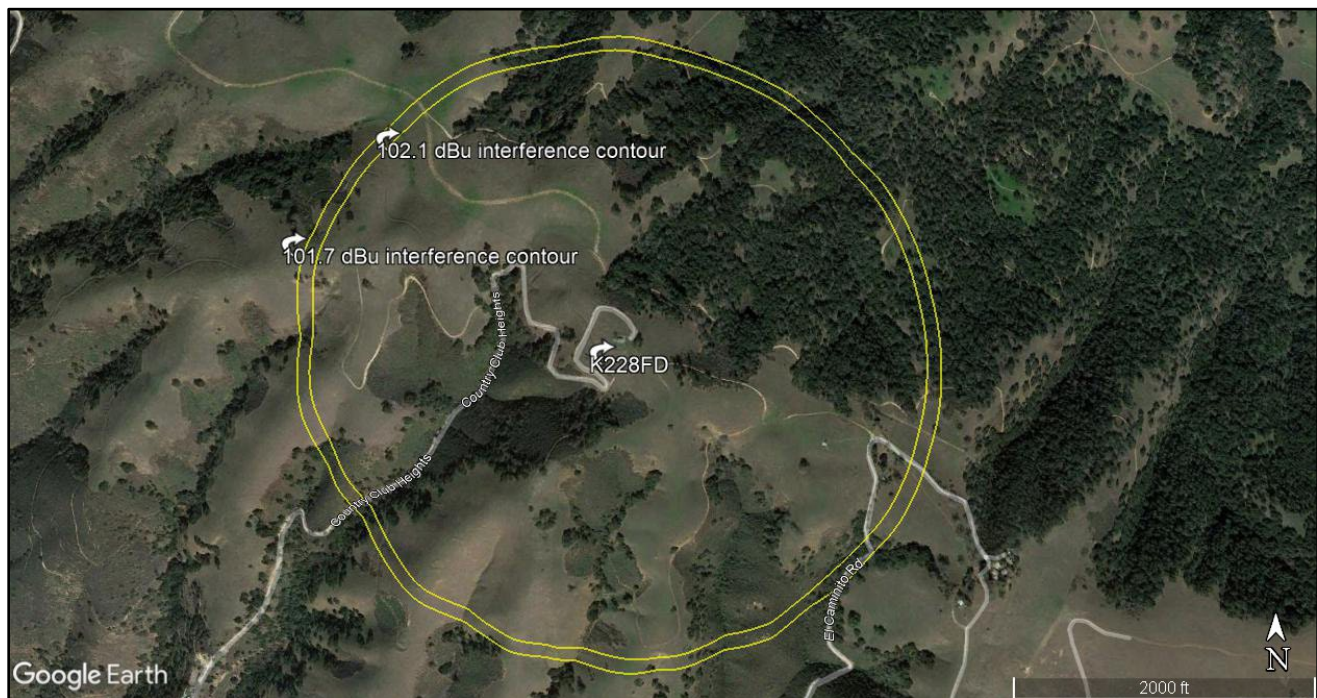
KXSM (LIC), CH 226A, Chualar, CA

KXSM signal strength at the K228FD site	62.1 dBu
K228FD interference contour	102.1 dBu
Distance to K228FD interference contour	628.9 meters

KEXA (LIC), CH 230B1, King City, CA

KEXA signal strength at the K228FD site	61.7 dBu
K228FD interference contour	101.7 dBu
Distance to K228FD interference contour	657.2 meters

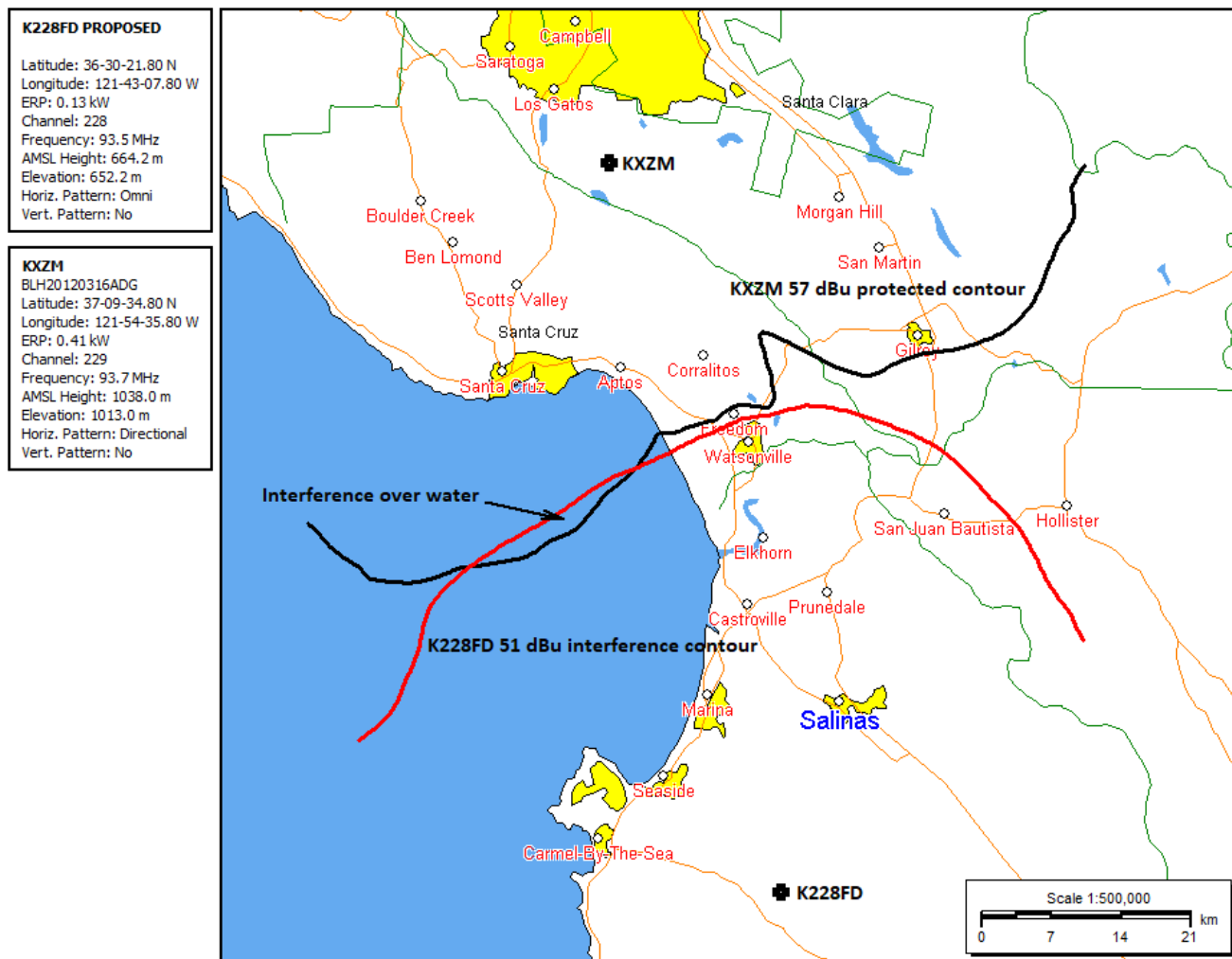
As is demonstrated on the below map, there are no occupied structures within either the 102.1 dBu interference contour distance of 628.9 meters to KXSM or the 101.7 dBu interference contour distance of 657.2 meters to KEXA, therefore, based on the showing of no population within the area of predicted interference a waiver of Section 74.1204(d) is respectfully requested.



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Interference Study

The below map demonstrates the lack of prohibited overlap of K228FD as proposed to KXZM. The only overlap occurs over water.



GLOBE terrain data

Environment Impact & RFR Compliance

K228FD is located at an established communications site that is in compliance with all environmental impact requirements.

K228FD will operate with an ERP of 0.130 kW (H&V, DA) at an antenna COR AGL height of 12.0 meters. For a worst-case estimation at 2 meters above ground level the RFR is no more than 43.4% of the general population/uncontrolled MPE limit. There are no other broadcast facilities at the site.

The site has restricted access to only authorized personnel. The applicant certifies that in cooperation with other users of the site all authorized personnel will be protected from RFR exposure in excess of FCC guidelines while accessing any controlled exposure area, including the tower, by either reducing power or ceasing operations.