

Proposed Minor Change Application

The proposed minor change application for K281BU specifies a change in the directional antenna and increase in ERP as indicated below:

	Licensed	Minor Change
Channel / Class	281 D	281 D
Geographical Coordinates	37 41 15 / 122 26 01	37 41 15 / 122 26 01
ASRN	1205149	1205149
Site AMSL	382.8 m	382.8 m
Tower AGL	94.8 m	94.8 m
COR AGL	47 m	47 m
COR AMSL	430 m	430 m
HAAT	388 m	388 m
ERP	0.080 kW (H&V, DA)	0.093 kW (H&V, DA)
ANTENNA	Scala CA5-FM/CP/1	Scala CA2-FM/CP/1
ANTENNA ORIENTATION	325 degrees	324 degrees

The below listed pages of this exhibit contains information as indicated.

Page 2 Tabulation of HAAT / ERP / distance to 60 dBu contour
Page 3 60 dBu contour map
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Tabulation of HAAT / ERP / distance to 60 dBu contour

CH 281 37 41 15 / 122 26 01 0.093 kW ERP DA 430 m COR AMSL 388 m HAAT

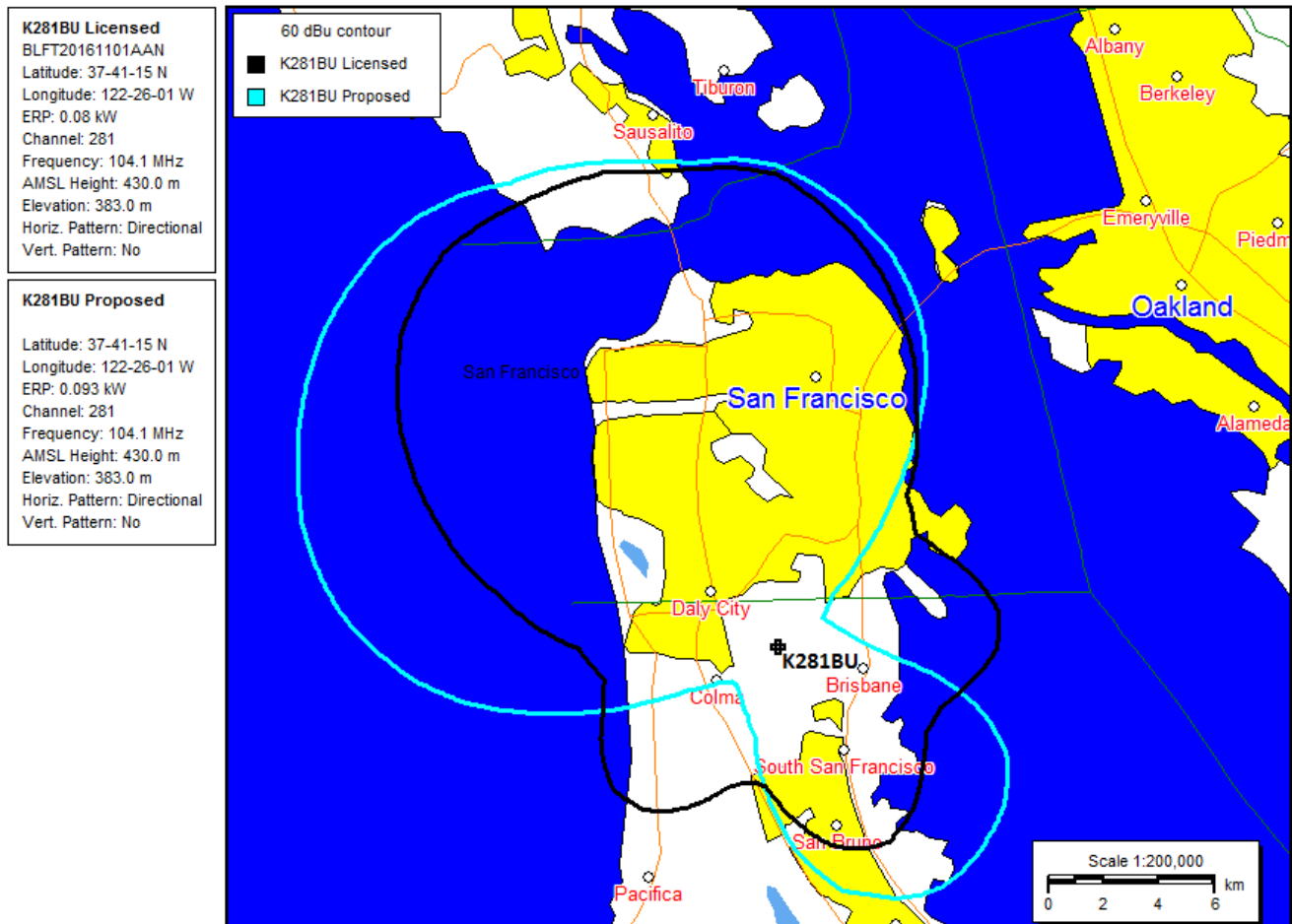
Azi.	AV EL	HAAT	ERP kW	dBk	Field	60-F5
000	50.5	379.5	0.0539	-12.69	0.761	17.27
010	45.2	384.8	0.0367	-14.36	0.628	15.74
020	29.3	400.7	0.0198	-17.04	0.461	13.74
030	20.3	409.7	0.0066	-21.78	0.267	10.44
040	15.5	414.5	0.0010	-30.14	0.102	5.42
050	7.3	422.7	0.0001	-39.19	0.036	2.29
060	1.0	429.0	0.0001	-40.49	0.031	1.98
070	0.3	429.7	0.0001	-39.43	0.035	2.23
080	0.2	429.8	0.0002	-37.85	0.042	2.63
090	0.5	429.5	0.0003	-35.20	0.057	3.44
100	2.0	428.0	0.0011	-29.41	0.111	5.79
110	8.2	421.8	0.0029	-25.31	0.178	8.16
120	9.1	420.9	0.0045	-23.43	0.221	9.44
130	8.4	421.6	0.0055	-22.57	0.244	10.03
140	9.1	420.9	0.0061	-22.15	0.256	10.31
150	18.7	411.3	0.0060	-22.22	0.254	10.16
160	68.0	362.0	0.0054	-22.71	0.240	9.33
170	123.1	306.9	0.0043	-23.67	0.215	8.09
180	190.2	239.8	0.0026	-25.91	0.166	6.17
190	213.0	217.0	0.0009	-30.67	0.096	4.22
200	172.1	257.9	0.0003	-35.67	0.054	2.96
210	82.0	348.0	0.0002	-38.06	0.041	2.49
220	44.2	385.8	0.0001	-39.69	0.034	2.15
230	30.7	399.3	0.0001	-40.49	0.031	1.97
240	25.4	404.6	0.0001	-38.49	0.039	2.45
250	21.3	408.7	0.0016	-28.04	0.130	6.38
260	20.6	409.4	0.0088	-20.54	0.308	11.29
270	16.0	414.0	0.0230	-16.39	0.497	14.48
280	12.3	417.7	0.0401	-13.96	0.657	16.78
290	15.5	414.5	0.0570	-12.44	0.783	18.29
300	16.8	413.2	0.0727	-11.39	0.884	19.41
310	21.3	408.7	0.0848	-10.72	0.955	20.06
320	35.1	394.9	0.0915	-10.38	0.992	20.11
324	46.6	383.4	0.0930	-10.32	1.000	19.90
330	69.2	360.8	0.0906	-10.43	0.987	19.23
340	81.0	349.0	0.0829	-10.82	0.944	18.51
350	83.6	346.4	0.0696	-11.57	0.865	17.64

FCC 30 SEC terrain database

(yellow highlighted values establish average HAAT)

60 dBu Contour Map

The proposed 60 dBu contour will continue to have overlap with the licensed 60 dBu contour.



Allocation Study

CH 281 37 41 15 / 122 26 01 0.093 kW ERP DA 430 m COR AMSL 388 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:

281D	K281BU	LIC	0.0	0.00	37 41 15.0	0.080				
San Francisco	CA		0.0	BLFT20161101AAN	122 26 01.0		430	Educational Media Foundation		

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

278D	K278CD	LIC	345.5	84.00	38 25 07.0	0.250	0.2	7.3	65.2	75.7
Santa Rosa	CA		165.3	BLFT20140606AAV	122 40 33.0		235	Amaturo Sonoma Media Group		
279D	KOSF-FM2	LIC	64.4	50.18	37 52 54.0	0.185	0.4	23.3	41.0	25.4
Pleasanton, Etc.	CA		244.7	BLFTB19990225UA	121 55 05.0	1000	1155	Amfm Broadcasting Licenses		
279B	KOSF	LIC	292.8	0.16	37 41 17.0	6.400	4.7	67.7	-23.2	-68.6
San Francisco	CA		112.8	BLH20130429AEC	122 26 07.0	403	446	Amfm Broadcasting Licenses		
280A	KDFG	LIC	159.5	130.60	36 35 09.0	1.500	48.3	32.0	72.3	85.1
Seaside	CA		339.8	BMLD20160616AAA	121 55 19.0	199	262	University Of Southern Cal		
281A	KJOR	LIC	336.8	103.34	38 32 28.0	0.900	70.6	23.3	14.3	19.4
Windsor	CA		156.5	BLH20070110ABL	122 54 05.0	93	217	Lazer Licenses, Llc		
281D	K281BL	LIC	123.9	72.35	37 19 22.0	0.250	65.0	20.7	-2.3	15.7
Coyote	CA		304.3	BLFT20141008ADA	121 45 15.0	-24	350	Educational Media Foundation		
281D	K281CA	LIC	140.1	91.03	37 03 28.0	0.190	29.9	8.7	50.9	37.4
Santa Cruz	CA		320.5	BLFT20150807AAH	121 46 30.0		974	Zwerling Broadcasting Syst		
281B	KHKK	LIC	92.3	84.25	37 39 10.0	50.000	115.0	36.1	-39.0	0.1
Modesto	CA		272.9	BLH7721	121 28 38.0	152	422	Radio License Holding Cbc,		
282A	KXSE	LIC	29.8	124.55	38 39 26.0	3.400	42.4	27.8	67.3	80.1
Davis	CA		210.3	BLH20030218AAQ	121 43 12.0	133	147	Entravision Holdings, Llc		
283D	KFOG-FM3	LIC	64.3	50.19	37 52 55.0	0.185	1.0	37.7	40.4	12.5
Pleasanton, Etc.	CA		244.6	BLFTB19910122TP	121 55 05.0		1155	Radio License Holding Src		
283B	KFOG	LIC	348.1	7.70	37 45 19.0	7.100	4.7	64.8	-14.8	-58.3
San Francisco	CA		168.1	BLH19980619KD	122 27 06.0	459	490	Radio License Holding Src		

I.F. relationships:

None

Terrain database - FCC NGDC 30 Sec

The following pages of this exhibit contain more detailed information on the relationship between the above highlighted facilities and K281BU as proposed.

Allocation Study

K281BU is located within the 54 dBu protected contour of the following second adjacent stations:

KOSF (LIC), CH 279 B, San Francisco, CA

Separation distance	.16 km
KOSF signal strength at the K281BU site	130.9 dBu
K281BU corresponding interference contour	170.9 dBu
Distance to K281BU interference contour	0.2 meters

KFOG (LIC), CH 283 B, San Francisco, CA

Separation distance	7.7 km
KFOG signal strength at the K281BU site	94.0 dBu
K281BU corresponding interference contour	134.0 dBu
Distance to K281BU interference contour	13.6 meters

K281BU's antenna height is 47 meters AGL. The distance to the K281BU interference contour for either KOSF (0.2 meters) or KFOG (13.6 meters) will not reach the ground by a minimum margin of 33.4 meters. There are no populated structures in the vicinity of the tower that exceed 33.4 meters in height. Therefore, a waiver of Section 74.1204(d) is respectfully requested based on the showing of no population within the area of predicted interference.



Allocation Study

KHKK LIC
Channel 281B
50 kW ERP
422 M COR AMSL
37 39 10 / 121 28 38

K281BU
Channel 281D
0.093 kW ERP
430 M COR AMSL
37 41 15 / 122 26 01

Protected 54 dBu

Interfering 34 dBu

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
302.0	050.0000	0187.6	069.3	037.4	000.0018	0413.5	041.2	32.19
303.0	050.0000	0197.1	070.2	036.0	000.0023	0413.1	042.3	32.90
304.0	050.0000	0206.9	071.2	034.7	000.0029	0412.8	043.5	33.36
305.0	050.0000	0216.2	072.0	033.6	000.0035	0412.4	044.8	33.70
306.0	050.0000	0224.5	072.8	032.7	000.0042	0411.9	046.0	33.94
307.0	050.0000	0231.9	073.5	032.0	000.0048	0411.5	047.4	33.98
308.0	050.0000	0239.0	074.1	031.4	000.0053	0411.0	048.7	33.91
309.0	050.0000	0245.8	074.7	030.9	000.0058	0410.5	050.1	33.73
310.0	050.0000	0251.9	075.2	030.5	000.0061	0410.2	051.4	33.46
311.0	050.0000	0256.9	075.6	030.3	000.0064	0409.9	052.8	33.09
312.0	050.0000	0260.7	076.0	030.2	000.0065	0409.8	054.2	32.63
313.0	050.0000	0263.5	076.2	030.2	000.0064	0409.9	055.5	32.10

