

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, tower height, antenna COR AMSL height and HAAT as is indicated below:

	Licensed	Minor Mod
Channel / Class	207D	207D
ASRN	N/A	N/A
Geographical Coordinates (NAD 83)	36 32 05.2 121 37 12.6	36 32 05.2 121 37 12.6
Site AMSL	1030.0 m	1030.2 m
Tower AGL	49.0 m	50.6 m
COR AGL	33.0 m	33.0 m
COR AMSL	1063.0 m	1063.2 m
HAAT	769.6 m	764.3 m
ERP	0.250 kW (V, DA)	0.125 kW (V, DA)
ANTENNA	CL-FMRX/1	CL-FMRX/1

FCC 30 second terrain data

Tabulation of HAAT / ERP / distance to 60 dBu contour

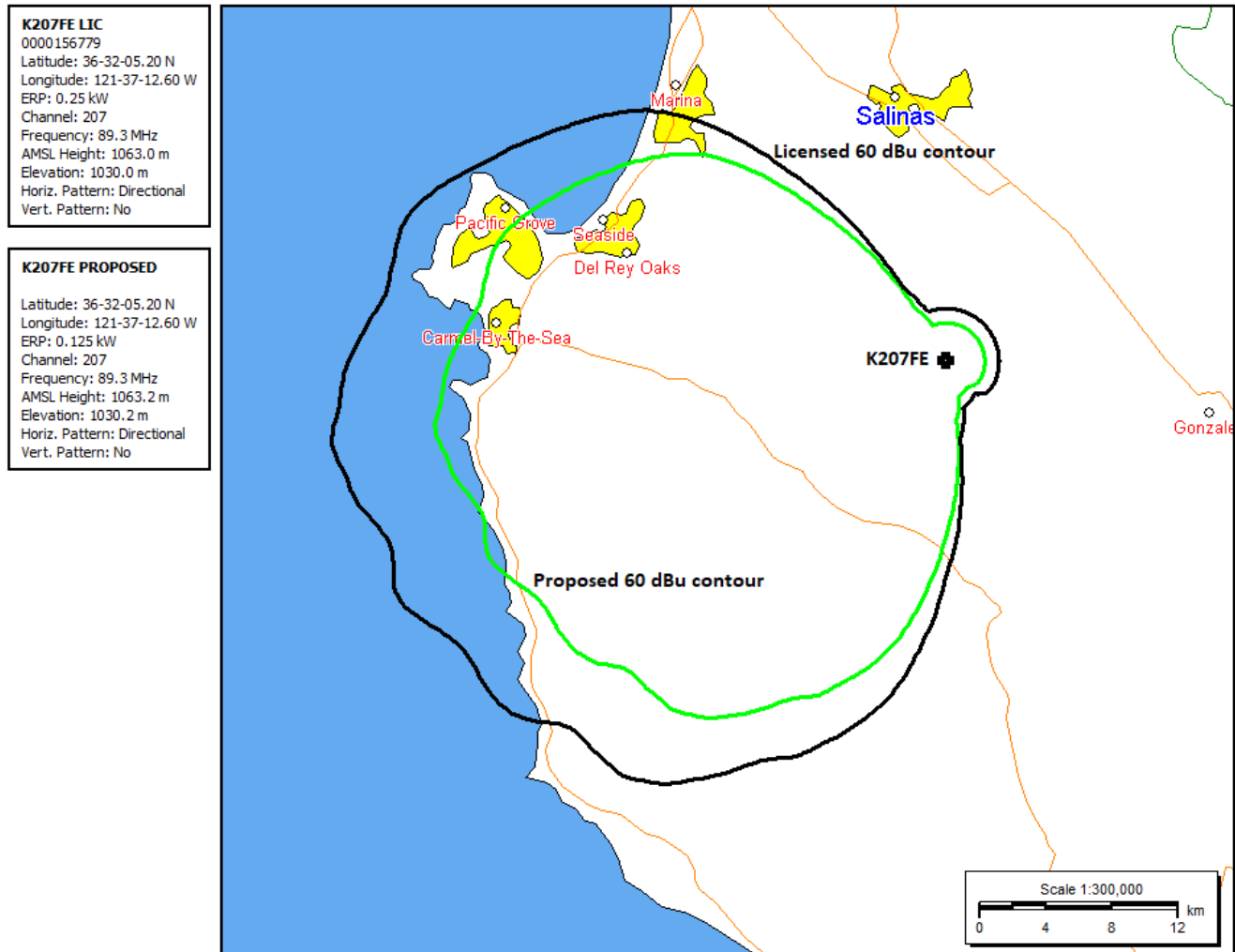
CH 207 36 32 05.2 / 121 37 12.6 0.125 kW ERP (V, DA) 1063.2 m COR AMSL 764.3 m HAAT

Azi.	AV EL	HAAT	ERP kW	dBk	Field	60-F5
000	75.5	987.7	0.0001	-39.49	0.030	2.32
010	78.6	984.6	0.0001	-39.49	0.030	2.32
020	80.6	982.6	0.0001	-39.49	0.030	2.32
030	84.5	978.7	0.0001	-39.49	0.030	2.32
040	88.9	974.3	0.0001	-39.49	0.030	2.32
050	91.1	972.1	0.0001	-39.49	0.030	2.32
060	101.6	961.6	0.0001	-39.49	0.030	2.32
070	116.6	946.6	0.0001	-39.49	0.030	2.31
080	125.4	937.8	0.0001	-39.49	0.030	2.31
090	146.3	916.9	0.0001	-39.49	0.030	2.31
100	172.4	890.8	0.0001	-39.49	0.030	2.31
110	235.4	827.8	0.0001	-39.49	0.030	2.30
120	379.8	683.4	0.0001	-39.49	0.030	2.29
130	675.8	387.4	0.0001	-39.49	0.030	2.20
140	868.5	194.7	0.0001	-39.49	0.030	1.99
150	776.8	286.4	0.0001	-39.49	0.030	2.11
160	672.7	390.5	0.0001	-39.49	0.030	2.20
170	568.3	494.9	0.0003	-35.05	0.050	3.54
180	505.2	558.0	0.0045	-23.46	0.190	10.26
190	449.8	613.4	0.0190	-17.21	0.390	16.96
200	411.1	652.1	0.0370	-14.32	0.544	21.09
210	375.9	687.3	0.0595	-12.25	0.690	24.36
220	369.6	693.6	0.0834	-10.79	0.817	26.53
230	375.9	687.3	0.1049	-9.79	0.916	27.89
240	395.4	667.8	0.1201	-9.21	0.980	28.40
250	356.4	706.8	0.1250	-9.03	1.000	29.54
260	295.0	768.2	0.1201	-9.21	0.980	30.60
270	282.1	781.1	0.1049	-9.79	0.916	29.83
280	284.9	778.3	0.0834	-10.79	0.817	28.10
290	242.7	820.5	0.0595	-12.25	0.690	26.51
300	273.0	790.2	0.0370	-14.32	0.544	23.09
310	253.1	810.1	0.0190	-17.21	0.390	19.41
320	235.7	827.5	0.0045	-23.46	0.190	11.68
330	190.4	872.8	0.0003	-35.05	0.050	3.67
340	125.9	937.3	0.0001	-39.49	0.030	2.31
350	99.7	963.5	0.0001	-39.49	0.030	2.32

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(yellow highlighted values establish average HAAT)

60 dBu contour coverage map

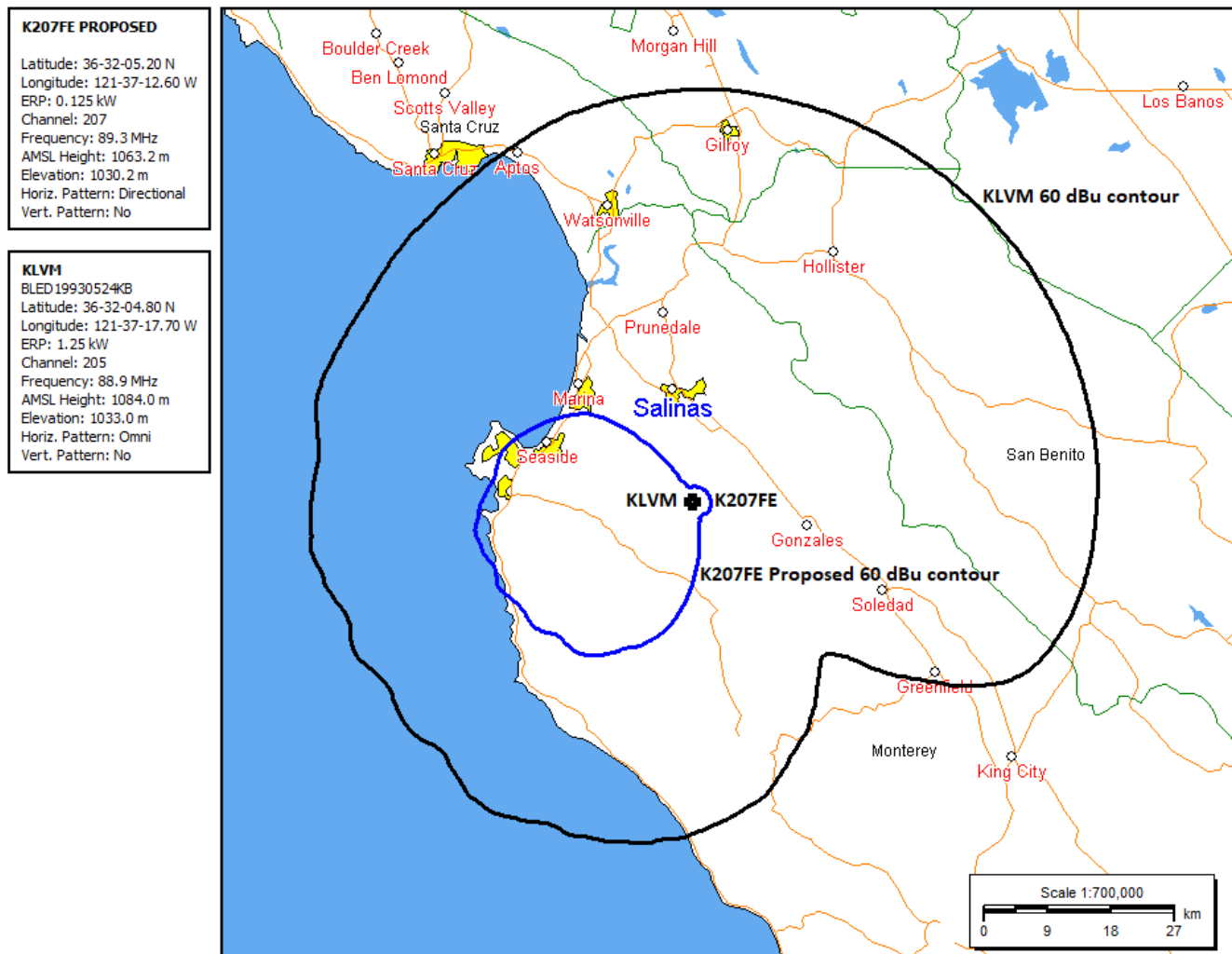
The minor modification application 60 dBu contour will continue to have overlap with the licensed 60 dBu contour.



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Fill-in Translator

K207FE 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 K207FE will be completely encompassed within the 60 dBu contour of KLVM and thus meets the required criteria for fill-in status.



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Educational Media Foundation
Minor Modification of Licensed Facility 0000156779

K207FE, Monterey, CA
December 2021

Interference Study

CH 207 36 32 05.2 / 121 37 12.6 0.125 kW ERP (V, DA) 1063.2 m COR AMSL 764.3 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:

207D	K207FE	LIC	0.0	0.00	36 32 05.20	0.250				
Monterey		CA	0.0	0000156779	121 37 12.60	770	1063	Educational Media Foundation		

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

205B	KLVM	LIC	264.4	0.12	36 32 04.80	1.250	2.4	56.8	-32.9	-57.4
Santa Cruz		CA	84.4	BLED19930524KB	121 37 17.70	761	1084	Educational Media Foundation		
206D	K206BQ	LIC	23.0	26.70	36 45 21.90	0.150	21.8	9.2	2.1	11.5
Hollister		CA	203.1	BLFT20170628AAR	121 30 09.80		1025	Educational Media Foundation		
207A	KMTG	LIC	343.8	77.09	37 12 05.80	0.300	12.1	4.2	49.8	53.6
San Jose		CA	163.7	0000109662	121 51 45.80	-95	185	San Jose Unified School Dist		
207A	KBCZ	LIC	326.7	78.04	37 07 14.70	0.115	56.2	16.3	2.0	17.9
Boulder Creek		CA	146.4	0000145377	122 06 13.90		383	Boulder Creek Recreation &		
207B	KLFF	LIC	146.1	156.70	35 21 36.90	4.400	109.4	42.3	35.9	102.1
San Luis Obispo		CA	326.7	BMLED20161021ABY	120 39 20.60	466	799	Family Life Broadcasting,		
207D	K207CN	LIC	323.1	59.23	36 57 37.30	0.050	15.0	4.7	24.0	6.0
Santa Cruz		CA	142.9	BLFT20140402AQO	122 01 13.80		15	University Corporation At		
207A	KPDO	LIC	318.6	105.64	37 14 39.80	0.100	18.6	5.6	64.7	41.5
Pescadero		CA	138.1	BLED20180226AAA	122 24 36.90	-7	67	Pescadero Public Radio Ser		
208A	KHCF	APP	347.9	58.70	37 03 06.60	0.014	13.3	6.1	32.0	46.0
Morgan Hill		CA	167.8	0000125602	121 45 32.30	458	750	Common Frequency, Inc		
208B	766049	APP	71.0	84.10	36 46 37.40	50.000	45.3	26.5	36.5	53.2
Firebaugh		CA	251.5	0000167143	120 43 44.10	-11	207	Remante Broadcasting Network		
208B	766536	APP	101.6	89.32	36 22 10.80	1.600	76.8	48.8	10.9	34.2
Three Rocks		CA	282.2	0000167164	120 38 41.80	685	1607	Radio Vision		
209B1	KNVM	CP	23.0	26.70	36 45 21.90	0.330	1.1	39.8	22.2	-13.1
Prunedale		CA	203.1	BPED20190507ABL	121 30 09.80	715	1013	Educational Media Foundation		
209B	KNVM	LIC	23.0	26.70	36 45 21.90	0.450	1.3	42.7	22.0	-16.0
Prunedale		CA	203.1	BLED20060822AJC	121 30 09.80	715	1013	Educational Media Foundation		
210A	KFRS	LIC	132.8	42.67	36 16 24.80	0.250	1.1	13.1	34.9	22.3
Soledad		CA	313.0	BLED20020408ABB	121 16 15.70	93	386	Family Stations, Inc.		

I.F. relationships:

N/A

Interference Study

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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Protection of CH 6 TV

Per Section 74.1205(a), NCE-FM translator stations operating on channel 207 must provide protection to TV Channel 6 broadcast stations located within a distance of 135 km. The minor modification is fully spaced to all TV Channel 6 broadcast stations within 135 km, therefore it is in full compliance with all provisions of Section 74.1205 with regard to Channel 6 TV protection.

06---	KBKF-LD	LIC	342.7	66.98	39 35 03.50	0.600	0.5	20.9	21.4R	45.6M
San Jose		CA	162.6	BLTVL20100818AAH119	48 09.90		1184			
06---	KBKF-LP/K	CP	348.3	109.30	39 35 03.50	3.000	0.5	53.8	54.3R	55.0M
San Jose		CA	168.1	BPTVL20101014ACL119	48 09.90		831			
06 --	K06QL-D	CP	30.3	134.76	39 35 03.50	0.150	0.5	1.1	1.6R	133.2M
Ceres		CA	210.8	0000167155	119 48 09.90		43			
06 --	KBKF-LD	STA	342.7	66.98	39 35 03.50	2.000	0.5	10.0	10.6R	56.4M
San Jose		CA	162.6	0000147729	119 48 09.90		1184			
06 --	KBKF-LD	LI	342.7	66.98	39 35 03.50	2.000	0.5	10.0	10.6R	56.4M
San Jose		CA	162.6	0000146566	119 48 09.90		1184			

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Interference Study

K207FE as proposed is located within the protected contour of the following second adjacent facilities:

KLVM(LIC), CH 205B, Santa Cruz, CA

KLVM signal strength at the K207FE site	125.8 dBu
K205FE interference contour	165.8 dBu
Maximum distance to K207FE interference contour	0.4 meters

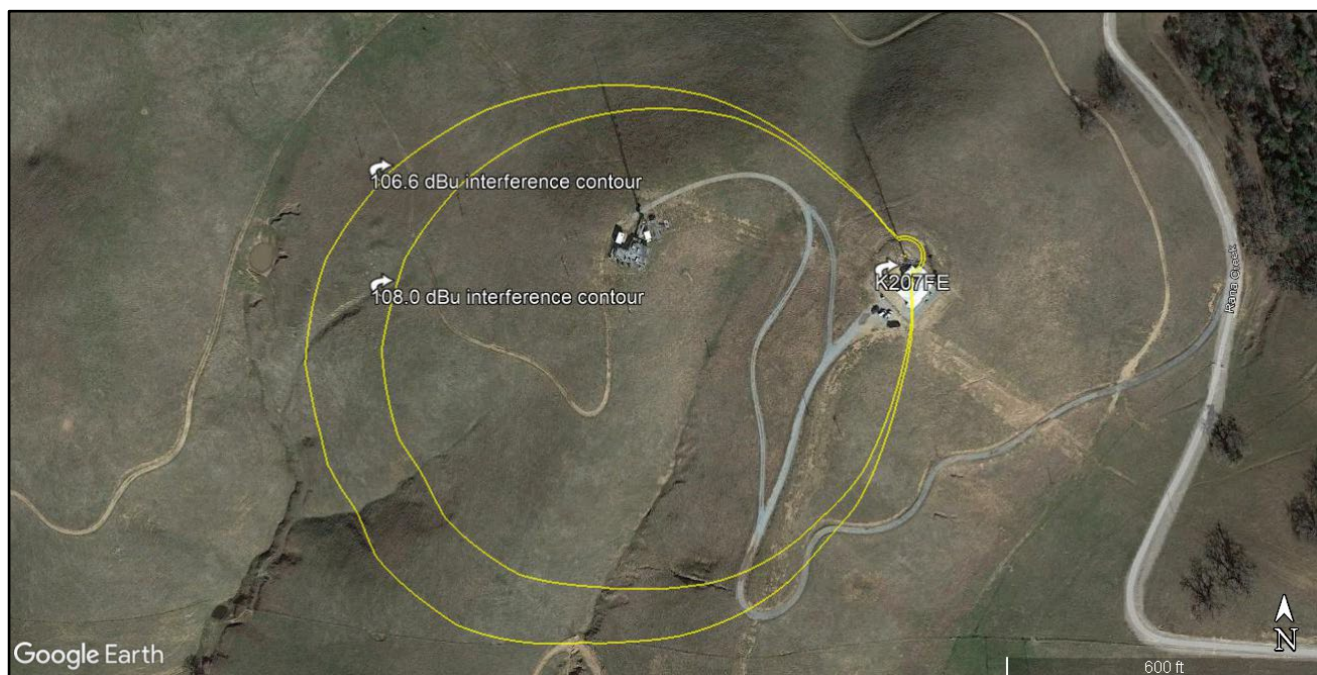
KNVM(LIC), CH 209B, ,Prunedale CA

KNVM signal strength at the K207FE site	68.0 dBu
K205FE interference contour	108.0 dBu
Maximum distance to K207FE interference contour	312.8 meters

KNVM(CP), CH 209B1, ,Prunedale CA

KNVM signal strength at the K207FE site	66.6 dBu
K205FE interference contour	106.6 dBu
Maximum distance to K207FE interference contour	365.3 meters

The K207FE maximum interference contour distance of 0.4 meters to KLVM will not reach the ground by a margin of 32.6 meters. As is demonstrated on the below map, there are no occupied structures within the interference contour distances to KNVM (LIC & CP), 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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Environment Impact & RFR Compliance

K207FE is located at an established communications site that is in compliance with all environmental impact requirements.

K207FE will operate with an ERP of 0.125 kW (V, DA) at an antenna COR AGL height of 33.0 meters. For a worst-case estimation at 2 meters above ground level the RFR is no more than 2.2% of the general population/uncontrolled MPE limit. There are other broadcast facilities at the site.

Facilities that contribute no more than 5% of the general population/uncontrolled MPE limit at the site comply with the requirements of OET Bulletin No. 65 with no further study, therefore K207FE is in compliance with all environmental and RFR requirements.

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.