

**LPFM Non-Preclusion Showing  
KPFA Translator Application  
Monterey, California  
BNPFT-20030313AAP**

The applicant is requesting to migrate to Ch 229D (93.7mhz). As shown by the following exhibits, use of both the original channel and the proposed channel does not preclude the use of these channels by an LPFM applicant, since these channels are not useable by an LPFM applicant in the first place.

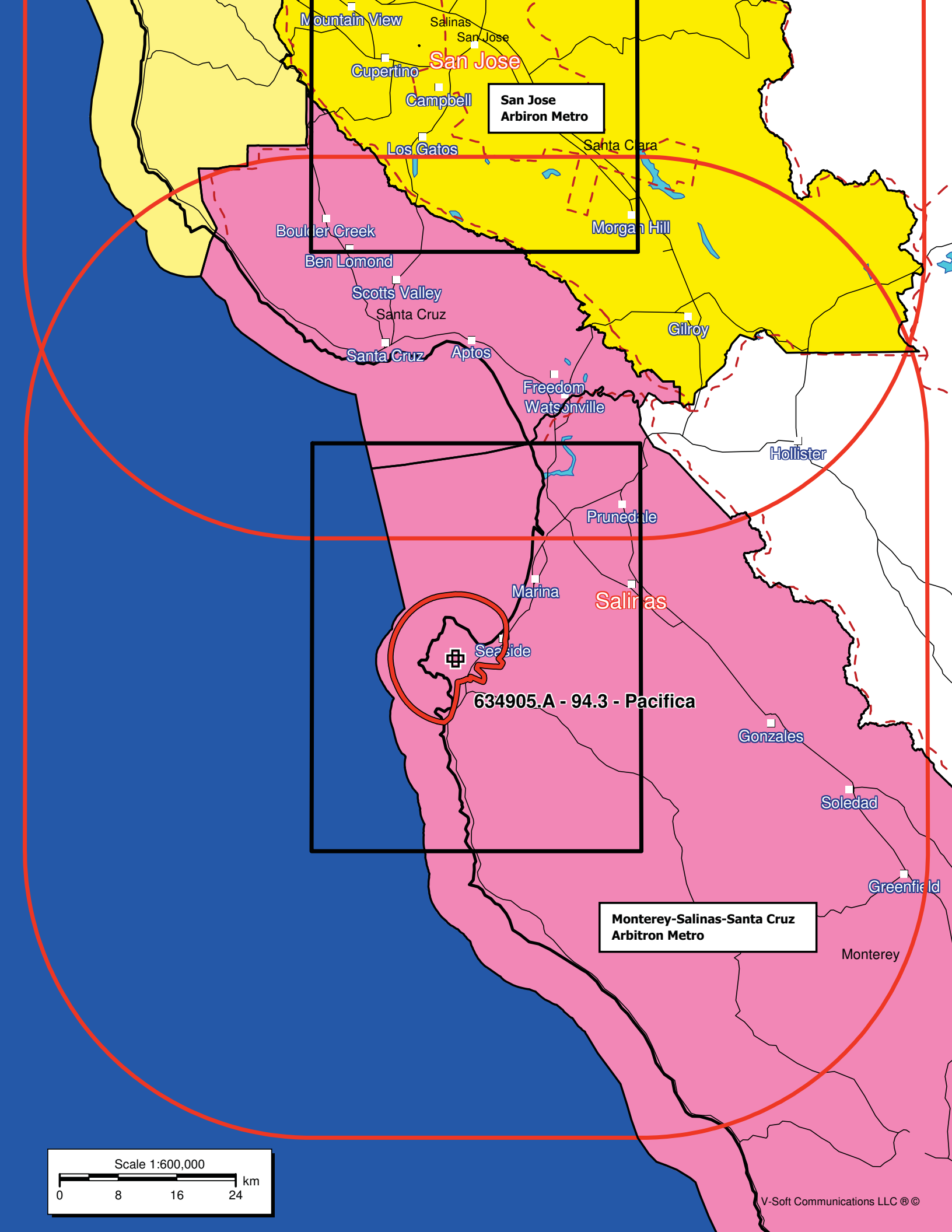
The proposed channel 229 is in Monterey County, and within the Monterey-Salinas Arbitron metro. Therefore, a site test is provided in accordance with DA 13-427, Appendix B, which instructs that the site test "ignore LPFM second-adjacent and intermediate protection requirements". The Commission's LPFM channel finder tool was used at the proposed site and indicates that at least four (4) channels other than Channel 229D are available at the site. The proposal appears to not preclude a single LPFM channel.

Therefore, it is concluded that the amended Monterey application does not preclude any LPFM channel point in an Appendix A market or any LPFM channel at its proposed site.

Respectfully submitted,

A handwritten signature in black ink, appearing to read 'D. Mussell Jr.', with a stylized, cursive flourish extending to the right.

Donald E. Mussell Jr. NCE-CBT  
Consulting Engineer  
April 5, 2013



Mountain View

Salinas

San Jose

Cupertino

San Jose

Campbell

San Jose  
Arbitron Metro

Los Gatos

Santa Clara

Boulder Creek

Morgan Hill

Ben Lomond

Scotts Valley

Santa Cruz

Santa Cruz

Aptos

Gilroy

Freedom  
Watsonville

Hollister

Prunedale

Marina

Salinas

Seaside

634905.A - 94.3 - Pacifica

Gonzales

Soledad

Greenfield

Monterey-Salinas-Santa Cruz  
Arbitron Metro

Monterey

Scale 1:600,000

0 8 16 24 km

Don Mussell Consulting Engineer  
Broadcast Engineering Services of Bonny Doon, Inc.

CHANNEL PRECLUSION STUDY  
New Monterey Translator  
Pacifica Foundation, Inc.

REFERENCE  
36 35 11. N.  
121 55 21. W.

Class= D , Pwr=0.01 kW DA, HAAT= 173.5 M, COR= 231 M  
Average Protected F(50-50)= 7.65 km  
Standard Directional

DISPLAY DATES  
DATA 04-05-13  
SEARCH 04-05-13

CH CITY	CALL	TYPE ANT STATE	AZI. <--	DIST FILE #	LAT. LNG.	Pwr(kw) HAAT(M)	INT(km) COR(M)	PRO(km) LICENSEE	*IN* (Overlap	*OUT* in km)
--- Channel 225 92.9 MHz. ---										
224B1	KTOM-FM	LIC _CN	107.4	12.60	36 33 09.0	6.900	68.4	52.4	-64.3*	-42.0*
Marina		CA	287.5	BMLH19950908KF	121 47 17.0	189	421	Cc Licenses, Llc		
--- Channel 226 93.1 MHz. ---										
226B1	KXSM	LIC ZCX	60.1	71.22	36 54 13.0	0.480	113.5	51.7	-45.4*	5.8
Hollister		CA	240.5	BLH20120316ADF	121 13 45.0	643	1098	Lazer Licenses, Llc		
224B1	KTOM-FM	LIC _CN	107.4	12.60	36 33 09.0	6.900	4.3	52.4	6.0	-39.9*
Marina		CA	287.5	BMLH19950908KF	121 47 17.0	189	421	Cc Licenses, Llc		
226D	KXSM-FM1	LIC DC_	75.7	37.20	36 40 06.0	0.120	44.2	11.5	-8.3*	11.0
Salinas		CA	255.9	BLFTB20120403ADF	121 31 09.0		426	Lazer Licenses, Llc		
226D	640130	APP _C_	101.8	27.74	36 32 06.0	0.001	33.3	6.3	-7.9*	13.8
Carmel valley		CA	282.0	BNPFT20030317CLX	121 37 09.0	785	1080	Broadcast Towers, Inc.		
226D	KXSM-FM1	CP DC_	75.7	37.20	36 40 06.0	0.120	42.0	10.8	-6.1*	11.1
Salinas		CA	255.9	BMPFTB20120403ACP	121 31 09.0		426	Lazer Licenses, Llc		
--- Channel 227 93.3 MHz. ---										
224B1	KTOM-FM	LIC _CN	107.4	12.60	36 33 09.0	6.900	4.3	52.4	6.0	-39.9*
Marina		CA	287.5	BMLH19950908KF	121 47 17.0	189	421	Cc Licenses, Llc		
--- Channel 228 93.5 MHz. ---										
***** Possible channel *****										
--- Channel 229 93.7 MHz. ---										
229B1	KXZM	LIC ZCX	1.1	63.63	37 09 35.0	0.410	91.8	33.4	-30.4*	11.1
Felton		CA	181.1	BLH20120316ADG	121 54 32.0	690	1038	Lazer Licenses, Llc		
230B1	KEXA	LIC _CN	109.8	67.34	36 22 48.0	5.400	75.2	56.8	-10.1*	6.7
King City		CA	290.2	BLH19871223KC	121 12 57.0	214	458	Wolfhouse Radio Group, Inc		
232D	632965	APP _C_	112.4	0.16	36 35 09.0	0.010	0.2	9.6	-1.7*	-9.5*
Pebble Beach		CA	292.4	BNPFT20030317BAQ	121 55 15.0	210	270	Educational Media Foundati		
232D	634905	APP _C_	0.0	0.00	36 35 11.0	0.010	0.2	8.8	-3.8*	-8.8*
Monterey		CA	0.0	BNPFT20030313AAP	121 55 21.0	174	231	Pacifica Foundation, Inc.		
--- Channel 230 93.9 MHz. ---										
230B1	KEXA	LIC _CN	109.8	67.34	36 22 48.0	5.400	123.2	56.8	-58.1*	1.6
King City		CA	290.2	BLH19871223KC	121 12 57.0	214	458	Wolfhouse Radio Group, Inc		
232D	632965	APP _C_	112.4	0.16	36 35 09.0	0.010	0.2	9.6	-1.7*	-9.5*
Pebble Beach		CA	292.4	BNPFT20030317BAQ	121 55 15.0	210	270	Educational Media Foundati		
232D	634905	APP _C_	0.0	0.00	36 35 11.0	0.010	0.2	8.8	-3.8*	-8.8*
Monterey		CA	0.0	BNPFT20030313AAP	121 55 21.0	174	231	Pacifica Foundation, Inc.		
--- Channel 231 94.1 MHz. ---										
231B	KPFA	LIC _HN	349.6	144.36	37 51 55.0	59.000	175.9	91.9	-35.7*	34.5
Berkeley		CA	169.4	BLED19791108AE	122 13 12.0	405	534	Pacifica Foundation, Inc.		
Commercial Channel operating Educational. Grandfathered at 59 kW ERP and 405 meters HAAT										
232D	634905	APP _C_	0.0	0.00	36 35 11.0	0.010	12.4	8.8	-16.0*	-14.4*
Monterey		CA	0.0	BNPFT20030313AAP	121 55 21.0	174	231	Pacifica Foundation, Inc.		
232D	632965	APP _C_	112.4	0.16	36 35 09.0	0.010	13.4	9.6	-14.9*	-11.3*
Pebble Beach		CA	292.4	BNPFT20030317BAQ	121 55 15.0	210	270	Educational Media Foundati		
230B1	KEXA	LIC _CN	109.8	67.34	36 22 48.0	5.400	75.2	56.8	-10.1*	6.7
King City		CA	290.2	BLH19871223KC	121 12 57.0	214	458	Wolfhouse Radio Group, Inc		

											Page # 2	
CH CITY	CALL	TYPE STATE	ANT	AZI <--	DIST FILE #	LAT LNG	PWR(kw) HAAT(M)	INT(km) COR(M)	PRO(km) LICENSEE	*IN* (Overlap	*OUT* in km)	
---												
--- Channel 232		94.3 MHz.	---									
232D	632965	APP _C_		112.4	0.16	36 35 09.0	0.010	31.8	9.6	-33.3*	-13.4*	
Pebble Beach		CA		292.4	BNPFT20030317BAQ	121 55 15.0	210	270	Educational Media Foundati			
232D	634905	APP _C_		0.0	0.00	36 35 11.0	0.010	29.3	8.8	-32.9*	-21.8*	
Monterey		CA		0.0	BNPFT20030313AAP	121 55 21.0	174	231	Pacifica Foundation, Inc.			
232D	639013	APP _C_		171.3	30.37	36 18 57.0	0.010	34.0	4.9	-8.3*	4.6	
Big Sur		CA		351.3	BNPFT20030314ADI	121 52 15.0	109	376	Foundation Of California S			
---												
--- Channel 233		94.5 MHz.	---									
233B	KBAY	LIC DCX		10.7	70.33	37 12 32.0	44.000	112.2	35.2	-45.5*	3.3	
Gilroy		CA		190.8	BLH20110321ACY	121 46 27.0	158	430	Nm Licensing Llc			
232D	634905	APP _C_		0.0	0.00	36 35 11.0	0.010	12.4	8.8	-16.0*	-14.4*	
Monterey		CA		0.0	BNPFT20030313AAP	121 55 21.0	174	231	Pacifica Foundation, Inc.			
232D	632965	APP _C_		112.4	0.16	36 35 09.0	0.010	13.4	9.6	-14.9*	-11.3*	
Pebble Beach		CA		292.4	BNPFT20030317BAQ	121 55 15.0	210	270	Educational Media Foundati			
236D	K234AW	CP _C_		107.4	12.60	36 33 09.0	0.250	1.1	21.3	9.2	-8.8*	
Monterey		CA		287.5	BMPFT20130318ABL	121 47 17.0		397	One Ministries, Inc.			
234D	K234AW	LIC DC_		107.4	12.60	36 33 09.0	0.018	17.3	10.8	-6.4*	-2.8	
Monterey		CA		287.5	BLFT20091013ACY	121 47 17.0	176	384	One Ministries, Inc.			
---												
--- Channel 234		94.7 MHz.	---									
234D	K234AW	LIC DC_		107.4	12.60	36 33 09.0	0.018	40.6	10.8	-29.2*	-9.6	
Monterey		CA		287.5	BLFT20091013ACY	121 47 17.0	176	384	One Ministries, Inc.			
232D	632965	APP _C_		112.4	0.16	36 35 09.0	0.010	0.2	9.6	-1.7*	-9.5*	
Pebble Beach		CA		292.4	BNPFT20030317BAQ	121 55 15.0	210	270	Educational Media Foundati			
232D	634905	APP _C_		0.0	0.00	36 35 11.0	0.010	0.2	8.8	-3.8*	-8.8*	
Monterey		CA		0.0	BNPFT20030313AAP	121 55 21.0	174	231	Pacifica Foundation, Inc.			
236D	K234AW	CP _C_		107.4	12.60	36 33 09.0	0.250	1.1	21.3	9.2	-8.8*	
Monterey		CA		287.5	BMPFT20130318ABL	121 47 17.0		397	One Ministries, Inc.			
---												
--- Channel 235		94.9 MHz.	---									
236D	K234AW	CP _C_		107.4	12.60	36 33 09.0	0.250	31.7	21.3	-24.9*	-10.5*	
Monterey		CA		287.5	BMPFT20130318ABL	121 47 17.0		397	One Ministries, Inc.			
235B	KYLD	LIC _CX		339.8	130.64	37 41 22.0	30.000	151.8	78.6	-24.4*	32.9	
San Francisco		CA		159.5	BMLH20080403ACF	122 26 10.0	369	425	Amfm Broadcasting Licenses			
238A	KKHK	LIC _C_		107.4	12.60	36 33 09.0	1.700	2.5	35.2	7.8	-22.6*	
Carmel		CA		287.5	BMLH20050517ACN	121 47 17.0	192	427	Mapleton License Of Monter			
232D	632965	APP _C_		112.4	0.16	36 35 09.0	0.010	0.2	9.6	-1.7*	-9.5*	
Pebble Beach		CA		292.4	BNPFT20030317BAQ	121 55 15.0	210	270	Educational Media Foundati			
232D	634905	APP _C_		0.0	0.00	36 35 11.0	0.010	0.2	8.8	-3.8*	-8.8*	
Monterey		CA		0.0	BNPFT20030313AAP	121 55 21.0	174	231	Pacifica Foundation, Inc.			
234D	K234AW	LIC DC_		107.4	12.60	36 33 09.0	0.018	17.3	10.8	-6.4*	-2.8	
Monterey		CA		287.5	BLFT20091013ACY	121 47 17.0	176	384	One Ministries, Inc.			

Terrain database is FCC NGDC 30 Sec, R= 73.215 qualifying spacings or FCC minimum spacings in KM, M= Margin KM  
In & Out distances between contours are shown at closest points. Reference Zone= East Zone 2A  
Ant Column: (D= DA Standard, Z= DA 73.215, N= Not DA 73.215, \_= Omni), Polarization (C,H,V,E), Beamtilt(Y,N,X)  
"\*"affixed to 'IN' or 'OUT' values = site inside protected contour.

All separation margins include rounding

**Audio Division****Low Power FM (LPFM) Channel Finder**

(202)-418-2700

[FCC](#) > [MB](#) > [Audio Division](#) > [LPFM Channel Finder](#) [LPFM Info](#)[FCC site map](#)

Fri Apr 5 19:45:31 2013

Input options:

EXCLUDES second-adjacent channel spacings  
INCLUDES intermediate frequency (I.F.) spacings

Latitude, Longitude: 36° 35' 11", 121 55' 21"

Google Map: [5.6 km radius \(approximate 60 dBu service contour coverage\)](#)

**CONDITIONAL.** The requested latitude and longitude meet the PROPOSED LPFM spacing requirements for one or more second adjacent channels.

These proposed spacing rules are not yet in effect.

**Channels Available for LPFM LP100 Stations**  
**[Channels 201 to 300, [corresponding to 88.1 to 107.9 MHz](#)]**

Channel 242	----	96.3 MHz
Channel 243	----	96.5 MHz
Channel 275	----	102.9 MHz
Channel 276	----	103.1 MHz
Channel 284	----	104.7 MHz

This analysis does not determine whether an LPFM station at this location and channel might receive interference within its 60 dBu LPFM service contour from FM broadcast stations already operating or authorized in the band from fully spaced locations. LPFM stations must accept all such interference.

Because the FM database constantly changes, there is no guarantee that channels represented as "available" will be technically acceptable at the time of application filing.

**Available Channels Interference Analysis**

This section considers the acceptable LPFM-use channels listed above, and determines which of these channels will be less likely to suffer interference from existing or authorized stations. This analysis only considers spacing, and assumes that the interfering stations are operating with the [reference facilities for the FM station's class](#). While helpful, the results shown below should not take the place of a thorough analysis of all options by a broadcast consulting engineer.

If interference is possible, the following table will contain:

- Call Sign of the interfering station
- Channel of that station
- Channel relationships: Same channel OR First-adjacent channel OR Second-adjacent channel
- Actual separation (in km)
- Minimum Separation for no interference within the 60 dBu contour  
(based on reference facilities and flat terrain)

Channel 242

Channel 276

Channel 284

Channel 243

KOIT 243	Same channel (cochannel)	138.0 km actual	143.0 km for no interference
----------	--------------------------	-----------------	------------------------------

Channel 275

KBLX-FM 275	Same channel (cochannel)	130.6 km actual	143.0 km for no interference
NEW 275	Same channel (cochannel)	82.9 km actual	92.0 km for no interference

A simple test for potential interference is to tune a radio to the channel or frequency under consideration, while at the proposed transmitter site. If a station can be heard, you should expect that coverage from an LPFM station may be diminished. Interference to the LPFM station could occur at some future date should the listed FM station increase its facilities to the maximums permitted for the station's class.

### AM Stations Within 3.2 km

Use this button to check for AM stations within 3.2 km [2 miles] of the coordinates specified above. If a *nondirectional* AM station appears within **0.8** km of these coordinates, or a *directional* AM station appears within **3.2** km, the LPFM applicant is responsible for measures to protect the AM station from changes in its operation caused by the LPFM antenna-supporting tower structure. See [47 CFR 73.1692](http://www.fcc.gov/47CFR73.1692). LPFM applicants should be aware that remediation may be costly if it becomes necessary to mitigate the impact on the AM station.

AM Stations within 3.2 km

'No records found' indicates that the coordinates are not within 3.2 km of an AM station.

### Airports Within 8 km (5 Miles)

The tool below allows you to check for airports within 8 km of the proposed station's coordinates. If you get a FAIL message, or if your proposed tower or supporting structure will be greater than 200 feet (61 meters) at ANY location, then you MUST obtain clearance from the FAA using [FAA Form 7460-1](http://www.faa.gov/7460-1), and the FAA-approved structure must be registered with the FCC via the [Antenna Structure Registration \(ASR\)](http://www.fcc.gov/ASR) system.

The [FAA's Form 7460-1](http://www.faa.gov/7460-1) and FCC antenna structure registration both require coordinates in the NAD83 coordinate system. To convert from NAD27 coordinates (used for broadcast station analyses) to NAD83 coordinates, you may use the [National Geodetic Survey's](http://www.ngs.noaa.gov/cgi-bin/nadcon.prl) conversion program at: <http://www.ngs.noaa.gov/cgi-bin/nadcon.prl>.

Convert 36° 35' 11", 121° 55' 21" to NAD83

Once you have obtained the converted coordinates, copy them down and enter them into the FCC's Wireless Telecommunications Bureau's

**[TOWAIR Query](#)**

If the proposed structure does not pass the TOWAIR test, you will need to request FAA clearance and register the antenna structure with the FCC once clearance is obtained from the FAA.

### FM, FM Translator & Booster, and TV Channel 6 Stations Considered in this Analysis

(Stations marked with an asterisk provide Radio Reading Service and must be protected on third adjacent channels.)

KBKF-LP	6		TX SAN JOSE	CA	US	N 37 6 39	W 121 50 37	58.62 km away at 186.89°	T
KZSC	201	B	FM SANTA CRUZ	CA	US	N 37 0 10	W 122 3 4	47.61 km away at 166.07°	T
KZSC	201	B	FM SANTA CRUZ	CA	US	N 37 0 10	W 122 3 4	47.61 km away at 166.07°	T
KLVK	202	B	FM COALINGA	CA	US	N 36 22 11	W 120 38 37	117.11 km away at 282.28°	T
KQED-FM	203	C	FM SAN FRANCISCO	CA	US	N 37 41 23	W 122 26 13	130.70 km away at 159.45°	T
KUSP	205	B	FM SANTA CRUZ	CA	US	N 36 32 5	W 121 37 14	27.63 km away at 282.12°	T
NEW	207	A	FM SCOTTS VALLEY	CA	US	N 37 3 43	W 122 7 14	55.65 km away at 161.50°	T
KPDO	207	A	FM PESCADERO	CA	US	N 37 15 11	W 122 24 37	85.81 km away at 149.53°	T
NEW	207	A	FM MILLERS RANCH	CA	US	N 36 12 6	W 121 27 48	59.32 km away at 316.28°	T
KMTG	207	A	FM SAN JOSE	CA	US	N 37 12 6	W 121 51 42	68.49 km away at 184.54°	T
NULL	207	A	FM SANTA CRUZ	CA	US	N 37 3 43	W 122 7 14	55.65 km away at 161.50°	T
K208CW	208	D	FX MONTEREY	CA	US	N 36 32 5	W 121 37 9	27.75 km away at 282.06°	T
NULL	208	B	FM DOS PALOS	CA	US	N 36 59 54	W 120 54 10	101.85 km away at 243.54°	T
KFJC	209	B1	FM LOS ALTOS	CA	US	N 37 19 14	W 122 8 29	83.77 km away at 166.53°	T
KLVM	209	B	FM PRUNEDALE	CA	US	N 36 45 22	W 121 30 6	42.07 km away at 243.43°	T
KLVM	209	B	FM PRUNEDALE	CA	US	N 36 45 22	W 121 30 6	42.07 km away at 243.43°	T
NEW	210	A	FM MORGAN HILL	CA	US	N 37 3 21	W 121 40 26	56.62 km away at 203.05°	T
KFRS	210	A	FM SOLEDAD	CA	US	N 36 16 25	W 121 16 12	68.03 km away at 300.98°	T
KFER	210	A	FM SANTA CRUZ	CA	US	N 37 0 45	W 121 58 25	47.51 km away at 174.50°	T
KBCZ	211	A	FM BOULDER CREEK	CA	US	N 37 8 31	W 122 5 16	63.39 km away at 166.56°	T
KZSU	211	A	FM STANFORD	CA	US	N 37 24 42	W 122 10 41	94.37 km away at 166.03°	T
NULL	212	A	FM SAN LUCAS	CA	US	N 36 8 9	W 121 1 36	94.68 km away at 302.25°	T
KAZU	212	B1	FM PACIFIC GROVE	CA	US	N 36 33 9	W 121 47 17	12.61 km away at 287.46°	T
KSJS	213	A	FM SAN JOSE	CA	US	N 37 12 33	W 121 46 30	70.35 km away at 190.77°	T
KYKL	214	B1	FM TRACY	CA	US	N 37 33 37	W 121 36 19	111.70 km away at 194.66°	T
KFRP	214	B	FM COALINGA	CA	US	N 35 55 39	W 120 22 46	156.77 km away at 298.36°	T
KHRI	214	A	FM HOLLISTER	CA	US	N 36 52 2	W 121 23 58	56.16 km away at 236.34°	T
KSRI	214	A	FM SANTA CRUZ	CA	US	N 37 0 10	W 122 3 5	47.62 km away at 166.04°	T
KHDC	215	A	FM CHUALAR	CA	US	N 36 34 54	W 121 26 34	42.94 km away at 270.85°	T
KCSM*	216	B1	FM SAN MATEO	CA	US	N 37 32 8	W 122 20 0	111.49 km away at 160.82°	T
NULL	217	A	FM PAICINES	CA	US	N 36 37 38	W 121 12 2	64.75 km away at 266.19°	T
K217CO	217	D	FX TULARCITOS & CARMEL	CA	US	N 36 25 52	W 121 40 32	28.04 km away at 308.11°	T
KDRH	217	A	FM KING CITY	CA	US	N 36 12 23	W 121 6 49	83.93 km away at 300.51°	T
KZBV	217	A	FM CARMEL VALLEY	CA	US	N 36 26 38	W 121 41 43	25.77 km away at 308.03°	T
K217EK	217	D	FX PALO COLORADO CANYON	CA	US	N 36 23 48	W 121 52 25	21.50 km away at 348.31°	T
KZBV	217	A	FM CARMEL VALLEY	CA	US	N 36 25 52	W 121 40 32	28.04 km away at 308.11°	T
KUOP	217	B	FM STOCKTON	CA	US	N 37 28 48	W 121 21 2	111.46 km away at 207.24°	T
KRQC-FM	218	B1	FM CUPERTINO	CA	US	N 37 6 40	W 121 50 36	58.66 km away at 186.91°	T
KBDH	219	B	FM SAN ARDO	CA	US	N 35 57 6	W 121 0 3	108.72 km away at 310.77°	T
KSPB	220	A	FM PEBBLE BEACH	CA	US	N 36 35 11	W 121 55 21	0.00 km away at NaN°	T
KSJO	222	B	FM SAN JOSE	CA	US	N 37 12 32	W 121 46 27	70.33 km away at 190.83°	T
KRQC-FM	224	B1	FM MARINA	CA	US	N 36 33 9	W 121 47 17	12.61 km away at 287.46°	T
NULL	226	D	FX CARMEL VALLEY	CA	US	N 36 32 6	W 121 37 9	27.75 km away at 282.00°	T
KXSM	226	B1	FM HOLLISTER	CA	US	N 36 54 13	W 121 13 45	71.23 km away at 240.48°	T
KRZZ	227	B	FM SAN FRANCISCO	CA	US	N 37 41 13	W 122 26 3	130.32 km away at 159.51°	T
KXZM	229	B1	FM FELTON	CA	US	N 37 9 35	W 121 54 32	63.64 km away at 181.09°	T
KZSL	230	B1	FM KING CITY	CA	US	N 36 22 48	W 121 12 57	67.34 km away at 290.17°	T
KPFA	231	B	FM BERKELEY	CA	US	N 37 51 55	W 122 13 12	144.37 km away at 169.42°	T
NULL	232	D	FX PEBBLE BEACH	CA	US	N 36 35 9	W 121 55 15	0.16 km away at 292.55°	T
NULL	232	D	FX MONTEREY	CA	US	N 36 35 11	W 121 55 21	0.00 km away at NaN°	T
NULL	232	D	FX BIG SUR	CA	US	N 36 18 57	W 121 52 15	30.38 km away at 351.28°	T
KBAY	233	B	FM GILROY	CA	US	N 37 12 32	W 121 46 27	70.33 km away at 190.83°	T
K234AW	234	D	FX MONTEREY	CA	US	N 36 33 9	W 121 47 17	12.61 km away at 287.46°	T
KYLD	235	B	FM SAN FRANCISCO	CA	US	N 37 41 22	W 122 26 10	130.64 km away at 159.48°	T
K234AW	236	D	FX MONTEREY	CA	US	N 36 33 9	W 121 47 17	12.61 km away at 287.46°	T
KRTY	237	A	FM LOS GATOS	CA	US	N 37 12 17	W 121 56 56	68.66 km away at 178.04°	T
KBOQ	238	A	FM CARMEL	CA	US	N 36 33 9	W 121 47 17	12.61 km away at 287.46°	T
KZQZ	239	B	FM SAN FRANCISCO	CA	US	N 37 41 23	W 122 26 12	130.69 km away at 159.46°	T
KMZT-FM	240	A	FM BIG SUR	CA	US	N 36 13 24	W 121 45 27	42.92 km away at 339.96°	T
KSQQ	241	A	FM MORGAN HILL	CA	US	N 37 11 1	W 121 48 9	67.13 km away at 189.17°	T
KOIT	243	B	FM SAN FRANCISCO	CA	US	N 37 45 19	W 122 27 6	137.97 km away at 160.00°	T
KWAV	245	B	FM MONTEREY	CA	US	N 36 32 5	W 121 37 14	27.63 km away at 282.12°	T
K217CO	247	D	FX TULARCITOS & CARMEL	CA	US	N 36 32 14	W 121 37 31	27.16 km away at 281.73°	T
KLIC	247	B	FM SAN FRANCISCO	CA	US	N 37 51 3	W 122 29 51	149.32 km away at 159.92°	T
KFFG	249	A	FM LOS ALTOS	CA	US	N 37 18 27	W 122 5 41	81.48 km away at 169.14°	T
KLXM	250	A	FM SALINAS	CA	US	N 36 40 20	W 121 31 28	36.86 km away at 255.08°	T
KISQ	251	B	FM SAN FRANCISCO	CA	US	N 37 51 4	W 122 29 50	149.34 km away at 159.93°	T
K252CK	252	D	FX SALINAS	CA	US	N 36 32 6	W 121 37 9	27.75 km away at 282.00°	T
KUFX	253	B	FM SAN JOSE	CA	US	N 37 12 17	W 121 56 56	68.66 km away at 178.04°	T

K271BP	254	D	FX CARMEL	CA	US	N 36 33 9	W 121 47 17	12.61 km away at 287.46° T
NULL	254	A	FA GREENFIELD	CA	US	N 36 19 23	W 121 14 41	67.42 km away at 295.98° T
KSOL	255	B	FM SAN FRANCISCO	CA	US	N 37 45 19	W 122 27 6	137.97 km away at 160.00° T
KZOL	256	B	FM SANTA CRUZ	CA	US	N 37 6 39	W 121 50 37	58.62 km away at 186.89° T
KLOK-FM	258	B	FM GREENFIELD	CA	US	N 36 27 51	W 121 17 52	57.57 km away at 283.87° T
KFRC-FM	259	B	FM SAN FRANCISCO	CA	US	N 37 41 15	W 122 26 4	130.39 km away at 159.51° T
K260AA	260	D	FX CARMEL VALLEY	CA	US	N 36 32 5	W 121 37 8	27.78 km away at 282.05° T
KBRG	262	B	FM SAN JOSE	CA	US	N 37 6 40	W 121 50 34	58.66 km away at 186.96° T
KTOM-FM	264	B	FM SALINAS	CA	US	N 36 32 5	W 121 37 14	27.63 km away at 282.12° T
K266BD	266	D	FX CARMEL VALLEY	CA	US	N 36 33 9	W 121 47 17	12.61 km away at 287.46° T
KIOI	267	B	FM SAN FRANCISCO	CA	US	N 37 41 24	W 122 26 13	130.73 km away at 159.46° T
KXDC	269	A	FM CARMEL	CA	US	N 36 33 9	W 121 47 17	12.61 km away at 287.46° T
KRKC-FM	271	B	FM KING CITY	CA	US	N 35 57 6	W 121 0 3	108.72 km away at 310.77° T
K218ET	271	D	FX CARMEL	CA	US	N 36 33 9	W 121 47 17	12.61 km away at 287.46° T
K218ET	271	D	FX CARMEL	CA	US	N 36 33 9	W 121 47 17	12.61 km away at 287.46° T
KUZX	271	B	FM SAN FRANCISCO	CA	US	N 37 51 3	W 122 29 51	149.32 km away at 159.92° T
KDON-FM	273	B	FM SALINAS	CA	US	N 36 45 23	W 121 30 5	42.11 km away at 243.41° T
NEW	275	A	FM KING CITY	CA	US	N 36 16 22	W 121 5 2	82.86 km away at 295.18° T
KBLX-FM	275	B	FM BERKELEY	CA	US	N 37 41 20	W 122 26 7	130.56 km away at 159.50° T
KATM	277	B	FM MODESTO	CA	US	N 37 34 30	W 121 21 13	120.81 km away at 204.83° T
K277AH	277	D	FX WATSONVILLE	CA	US	N 36 52 43	W 121 45 4	35.86 km away at 205.23° T
KRAY-FM	278	A	FM SALINAS	CA	US	N 36 40 20	W 121 31 28	36.86 km away at 255.08° T
KKSF	279	B	FM SAN FRANCISCO	CA	US	N 37 45 19	W 122 27 6	137.97 km away at 160.00° T
KKSF-FM	279	B	FM SAN FRANCISCO	CA	US	N 37 41 17	W 122 26 7	130.47 km away at 159.49° T
KTEE	280	A	FM SEASIDE	CA	US	N 36 35 9	W 121 55 19	0.08 km away at 321.24° T
KHKK	281	B	FM MODESTO	CA	US	N 37 39 10	W 121 28 38	124.79 km away at 198.55° T
KMBY-FM	282	A	FM GONZALES	CA	US	N 36 40 6	W 121 31 9	37.21 km away at 255.91° T
KFOG	283	B	FM SAN FRANCISCO	CA	US	N 37 45 19	W 122 27 6	137.97 km away at 160.00° T
KAPU-LP	284	L1	FL WATSONVILLE	CA	US	N 36 56 0	W 121 48 41	39.76 km away at 194.42° T
KCNL	285	A	FM SUNNYVALE	CA	US	N 37 19 22	W 121 45 15	83.08 km away at 190.40° T
KOCN	286	A	FM PACIFIC GROVE	CA	US	N 36 33 9	W 121 47 17	12.61 km away at 287.46° T
KITS	287	B	FM SAN FRANCISCO	CA	US	N 37 41 20	W 122 26 7	130.56 km away at 159.50° T
KARA	289	B	FM SANTA CLARA	CA	US	N 37 21 32	W 121 45 22	87.00 km away at 189.81° T
KMLY	290	A	FM CARMEL VALLEY	CA	US	N 36 21 7	W 121 36 20	38.52 km away at 312.70° T
KMEL	291	B	FM SAN FRANCISCO	CA	US	N 37 41 24	W 122 26 13	130.73 km away at 159.46° T
K291AE	291	D	FX SEASIDE	CA	US	N 36 32 18	W 121 37 31	27.14 km away at 281.47° T
KLUE	292	A	FM SOLEDAD	CA	US	N 36 16 27	W 121 16 15	67.94 km away at 300.97° T
KEZR	293	B	FM SAN JOSE	CA	US	N 37 12 32	W 121 46 27	70.33 km away at 190.83° T
NEW	294	D	FX MONTEREY	CA	US	N 36 33 9	W 121 47 17	12.61 km away at 287.46° T
NULL	294	D	FX MONTEREY	CA	US	N 36 35 9	W 121 55 15	0.16 km away at 292.55° T
KEAR	295	B	FM SAN FRANCISCO	CA	US	N 37 51 4	W 122 29 50	149.34 km away at 159.93° T
KVRG-FM	296	A	FM SEASIDE	CA	US	N 36 33 9	W 121 47 17	12.61 km away at 287.46° T
KLVS	297	B	FM LIVERMORE	CA	US	N 37 49 17	W 121 46 49	137.64 km away at 185.28° T
KPIG	298	A	FM FREEDOM	CA	US	N 36 50 6	W 121 42 22	33.69 km away at 214.97° T
KSAN	299	B	FM SAN MATEO	CA	US	N 37 41 20	W 122 26 7	130.56 km away at 159.50° T
KSEA	300	B1	FM GREENFIELD	CA	US	N 36 23 0	W 121 25 40	49.73 km away at 297.19° T

## New LPFM Channel Finder Analysis?

NAD 27 Coordinates (degrees, minutes, seconds latitude and longitude)

FM Station Latitude

FM Station Longitude

36

35

11

121

55

21

- ☒ Results only
- ☐ Show List of Stations Considered



**Special search options:**

*Second adjacent channels:* An LPFM application must satisfy minimum distance separation requirements to stations operating on and applications proposing operations on second-adjacent channels. The *Local Community Radio Act* authorizes the Commission to waive the second-adjacent channel protection requirement and the Commission has under consideration proposed waiver standards.

☒ *Consider*   ☐ *Don't consider*   *Second-adjacent channel spacings*

*Intermediate Frequency (I.F.) channels:* An LPFM application must satisfy minimum distance separation requirements to stations operating on and applications proposing operations on intermediate frequency (IF) channels. The Commission has under consideration a proposal to eliminate this requirement for LPFM applications proposing operations at less than 100 watts effective radiated power.

☒ *Consider*   ☐ *Don't consider*   *I.F. channel spacings*

[Submit the Data](#)[Clear the Form](#)[FCC Home](#)[Search](#)[RSS](#)[Updates](#)[E-Filing](#)[Initiatives](#)[Consumers](#)[Find People](#)

If you would like more information pertaining to the Media Bureau, please call: (202) 418-7200.

Federal Communications Commission  
445 12th Street SW  
Washington, DC 20554

[More FCC Contact Information...](#)

Phone: 1-888-CALL-FCC (1-888-225-5322)

TTY: 1-888-TELL-FCC (1-888-835-5322)

Fax: 1-866-418-0232

E-mail: [fccinfo@fcc.gov](mailto:fccinfo@fcc.gov)

- [Privacy Policy](#)

- [Website Policies & Notices](#)

- [Required Browser Plug-ins](#)

- [Freedom of Information Act](#)

\*\*\*

State of Hawaii )  
Kilauea )  
County of Kauai )

That he declares, under penalty of perjury, that the foregoing engineering exhibits were prepared by him or under his direction and supervision; and that the statements contained therein are true and correct to the best of his belief and knowledge.

Donald E. Mussell Jr. NCE-CBT  
Consulting Engineer  
April 5, 2013