

Broadcast Engineering Services of Bonny Doon, Inc.

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**Engineering Statement in support of a Minor Modification
New, Monterey, California
BNPFT-20030313AAP**

The Pacifica Foundation (Pacifica) is requesting a minor amendment to the application BNPFT-20030313AAP, facility ID 142901 by way of the long form 349. Pacifica proposes to change the frequency and change to a directional antenna.

Pacifica proposes to change the operating frequency to Ch 229D (93.7 mhz), and add a directional antenna. An allocation study for Ch. 229D was performed to verify clearances to other authorized facilities surrounding the proposed site. The use of Ch 229D causes no overlap with any other existing or proposed facility except a proposed new translator (BNPFT-20030317BAQ, facility ID 141385). However, the small amount of 3rd adjacent overlap does not affect any populated areas. Based upon these mitigating factors, the applicant respectfully requests a waiver of C.F.R. 74.1024(d) of the Commission's rules based on the fact that there is no population within the area of predicted interference. A detailed allocation study with map exhibits is attached to this engineering statement.

The proposed antenna system is a YA-7 antenna, vertically polarized, and producing 10 watts (.01 KW) ERP. This antenna and power combination, mounted 9 meters above ground, will produce a calculated worst-case RFR energy field of 6.5 microwatts per squared centimeter at a distance of 1.8 meters from the base of the tower support structure. This is slightly more than 1% of the public limit, and is therefore compliant with the FCC rules concerning RFR both on and adjacent to the proposed tower location. There are no other broadcast emitters on this structure.

Pacifica is ready to construct the facility with these specified changes once the transfer of control is approved. Once this application is granted, construction will commence on the transmission facilities and will be completed well within the time limitations imposed by the construction permit.

Respectfully submitted,



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

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

New Monterey Translator
Pacifica Foundation, Inc.
Average Protected F(50-50)= 7.65 km
Standard Directional

REFERENCE
36 35 11.0 N.
121 55 21.0 W.

CH# 229D - 93.7 MHZ, Pwr= 0.01 kW DA, HAAT= 173.5 M, COR= 231 M

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

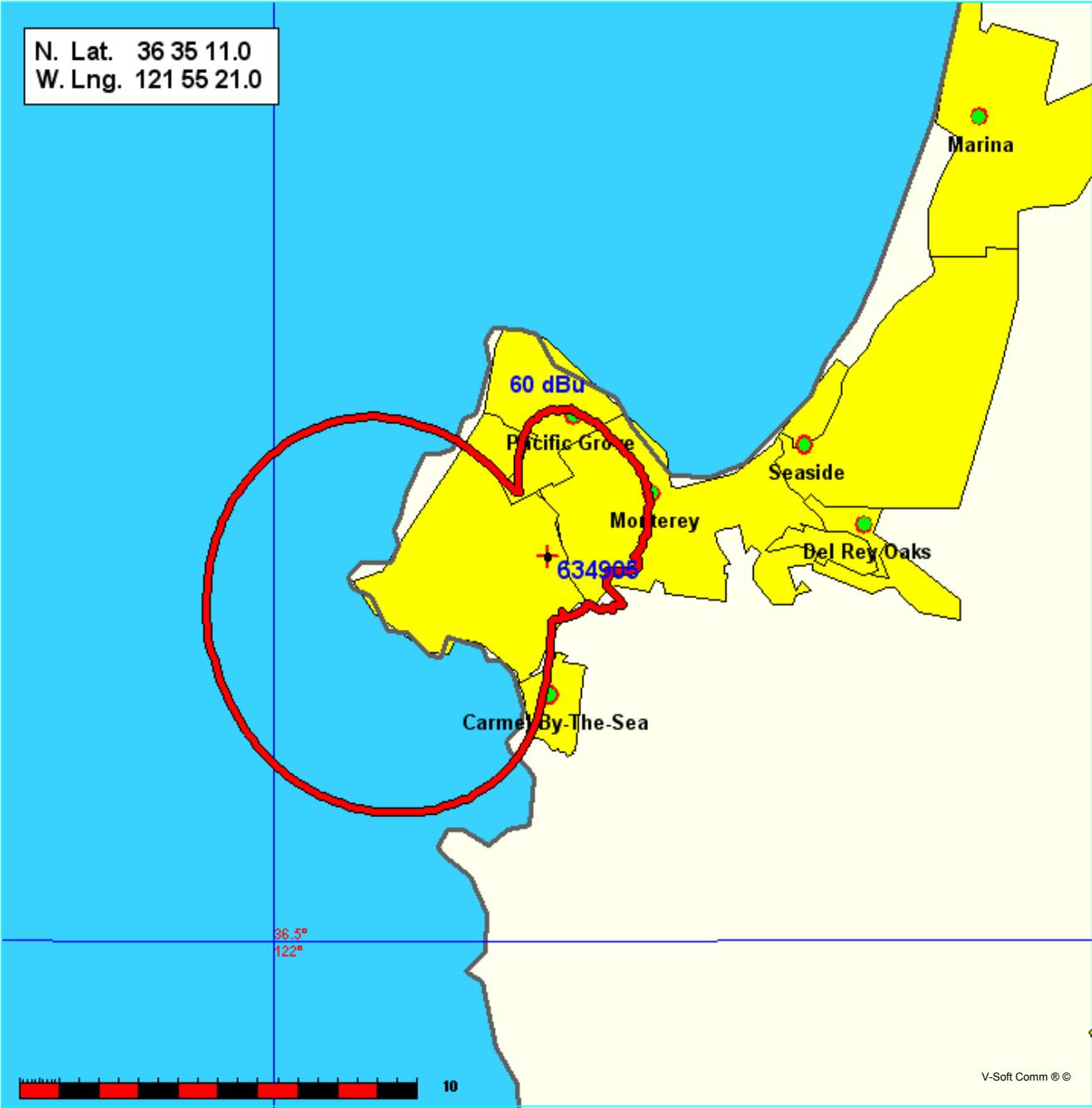
CH CITY	CALL	TYPE STATE	ANT AZI <--	DIST FILE #	LAT LNG	PWR(kw) HAAT(M)	INT(km) COR(M)	PRO(km) LICENSEE	*IN* (Overlap in km)	*OUT*
229B1 Felton	KXZM	LIC ZCX CA	1.1 181.1	63.63 BLH20120316ADG	37 09 35.0 121 54 32.0	0.410 690	91.8 1038	33.4	-30.4*	11.1
230B1 King City	KEXA	LIC _CN CA	109.8 290.2	67.34 BLH19871223KC	36 22 48.0 121 12 57.0	5.400 214	75.2 458	56.8	-10.1*	6.7
232D Pebble Beach	632965	APP _C_ CA	112.4 292.4	0.16 BNPFT20030317BAQ	36 35 09.0 121 55 15.0	0.010 210	0.2 270	9.6	-1.7*	-9.5*
232D Monterey	634905	APP _C_ CA	0.0 0.0	0.00 BNPFT20030313AAP	36 35 11.0 121 55 21.0	0.010 174	0.2 231	8.8	-3.8*	-8.8*
229B Fresno	KSKS	LIC _CX CA	75.4 256.9	228.62 BMLH20050425ABM	37 04 39.0 119 26 01.0	68.000 580	207.8 1404	115.6	18.0	99.8
226B1 Hollister	KXSM	LIC ZCX CA	60.1 240.5	71.22 BLH20120316ADF	36 54 13.0 121 13 45.0	0.480 643	1.5 1098	51.7	66.6	19.4
232D Big Sur	639013	APP _C_ CA	171.3 351.3	30.37 BNPFT20030314ADI	36 18 57.0 121 52 15.0	0.010 109	0.2 376	4.9	24.6	20.5
226D Carmel Valley	640130	APP _C_ CA	101.8 282.0	27.74 BNPFT20030317CLX	36 32 06.0 121 37 09.0	0.001 785	0.1 1080	6.3	25.4	21.4
226D Salinas	KXSM-FM1	LIC DC_ CA	75.7 255.9	37.20 BLFTB20120403ADF	36 40 06.0 121 31 09.0	0.120	0.3 426	11.5	34.1	22.1
226D Salinas	KXSM-FM1	CP DC_ CA	75.7 255.9	37.20 BMPFTB20120403ACP	36 40 06.0 121 31 09.0	0.120	0.2 426	10.8	34.1	22.2

Terrain database is FCC NGDC 30 Sec , R= 73.215 qualifying spacings or FCC minimum spacings in KM, M= Margin in KM
In & Out distances between contours are shown at closest points. Reference zone= East Zone 2A, Co to 3rd adjacent.
All separation margins (if shown) include rounding
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.

New Monterey Translator
Pacifica Foundation, Inc.

Coverage Study - FCC NGDC 30 Sec
04-05-2013

634905 CH229 D , 0.01 kW, 173.5M HAAT, 231.0M COR AMSL
Service Contour = 60 dBu. Population = 27,366



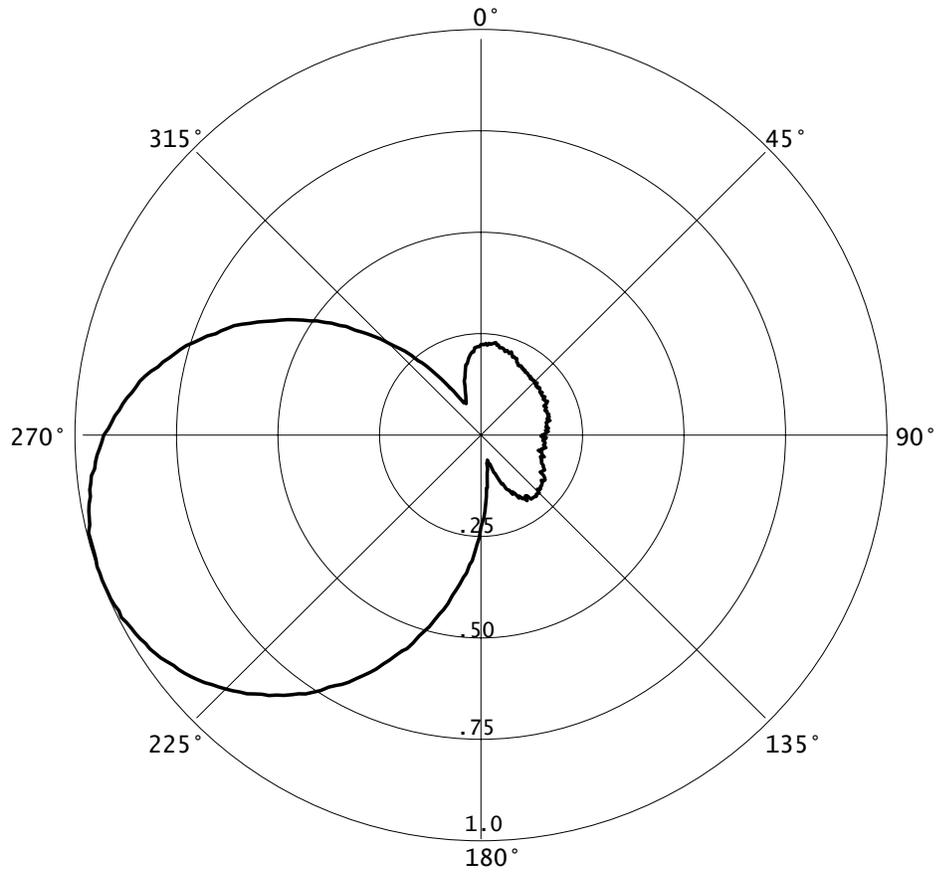
634905

04-05-2013

RMS(V)= .495

Graph is Relative Field

Azi	Field	dBk	kw
000	0.224	-32.995	0.001
010	0.226	-32.918	0.001
020	0.219	-33.191	0.000
030	0.198	-34.067	0.000
040	0.190	-34.425	0.000
050	0.182	-34.799	0.000
060	0.177	-35.041	0.000
070	0.173	-35.239	0.000
080	0.164	-35.703	0.000
090	0.150	-36.478	0.000
100	0.158	-36.027	0.000
110	0.156	-36.138	0.000
120	0.176	-35.090	0.000
130	0.195	-34.199	0.000
140	0.201	-33.936	0.000
150	0.167	-35.546	0.000
160	0.101	-39.914	0.000
170	0.091	-40.819	0.000
180	0.228	-32.841	0.001
190	0.403	-27.894	0.002
200	0.569	-24.898	0.003
210	0.716	-22.902	0.005
220	0.838	-21.535	0.007
230	0.931	-20.621	0.009
240	0.983	-20.149	0.010
250	0.999	-20.009	0.010
260	0.980	-20.175	0.010
270	0.929	-20.640	0.009
280	0.840	-21.514	0.007
290	0.718	-22.878	0.005
300	0.570	-24.883	0.003
310	0.404	-27.872	0.002
320	0.241	-32.360	0.001
330	0.107	-39.412	0.000
340	0.112	-39.016	0.000
350	0.186	-34.610	0.000

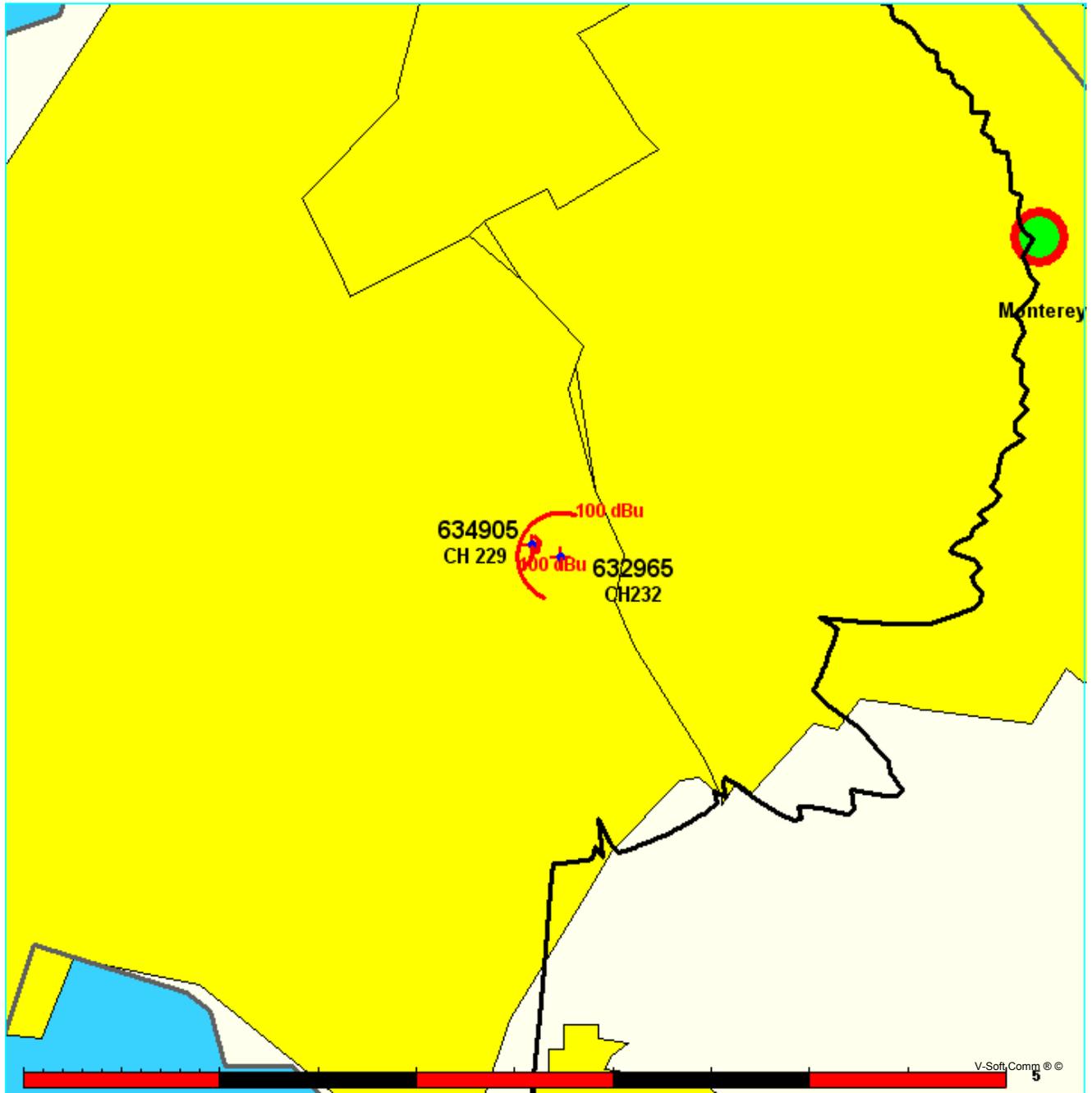


New Monterey Translator - 632965
Pacifica Foundation, Inc.

FMCommander Single Allocation Study - 04-05-2013 - FCC NGDC 30 Sec
634905's Overlaps (In= -1.67 km, Out= -9.47 km)

634905 CH 229 D DA
Lat= 36 35 11.0, Lng= 121 55 21.0
0.01 kW 173.5 M HAAT, 231 M COR
Prot.= 60 dBu, Intef.= 100 dBu

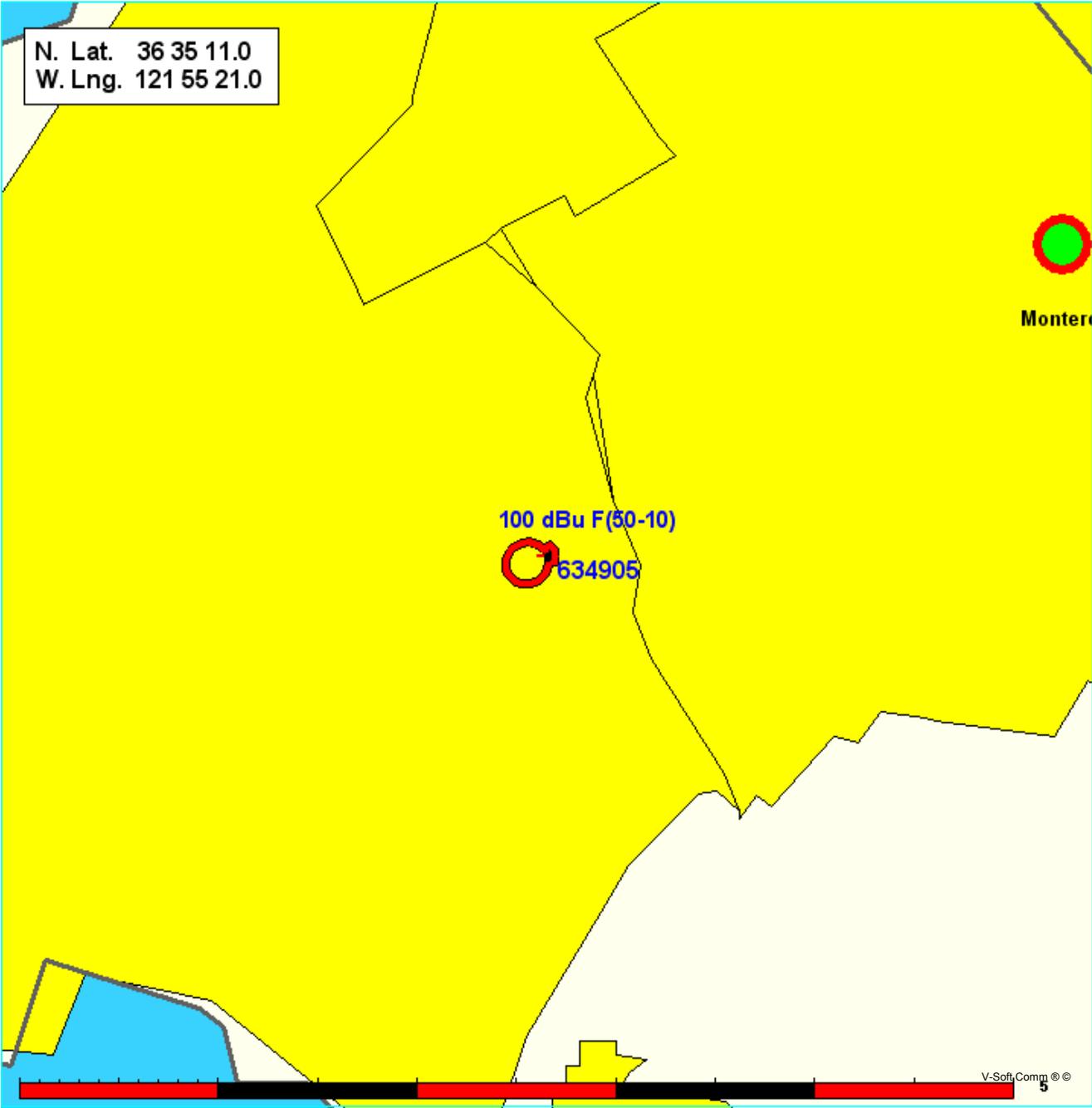
632965 CH 232 D BNPFT20030317BAQ
Lat= 36 35 09.0, Lng= 121 55 15.0
0.01 kW 210.2 M HAAT, 270 M COR
Prot.= 60 dBu, Intef.= 100 dBu



New Monterey Translator - 100 dbu 50/10 Contour
Pacifica Foundation, Inc.

Coverage Study - FCC NGDC 30 Sec
04-05-2013

634905 CH229 D , 0.01 kW, 173.5M HAAT, 231.0M COR AMSL
Service Contour = 100 dBu. Population =

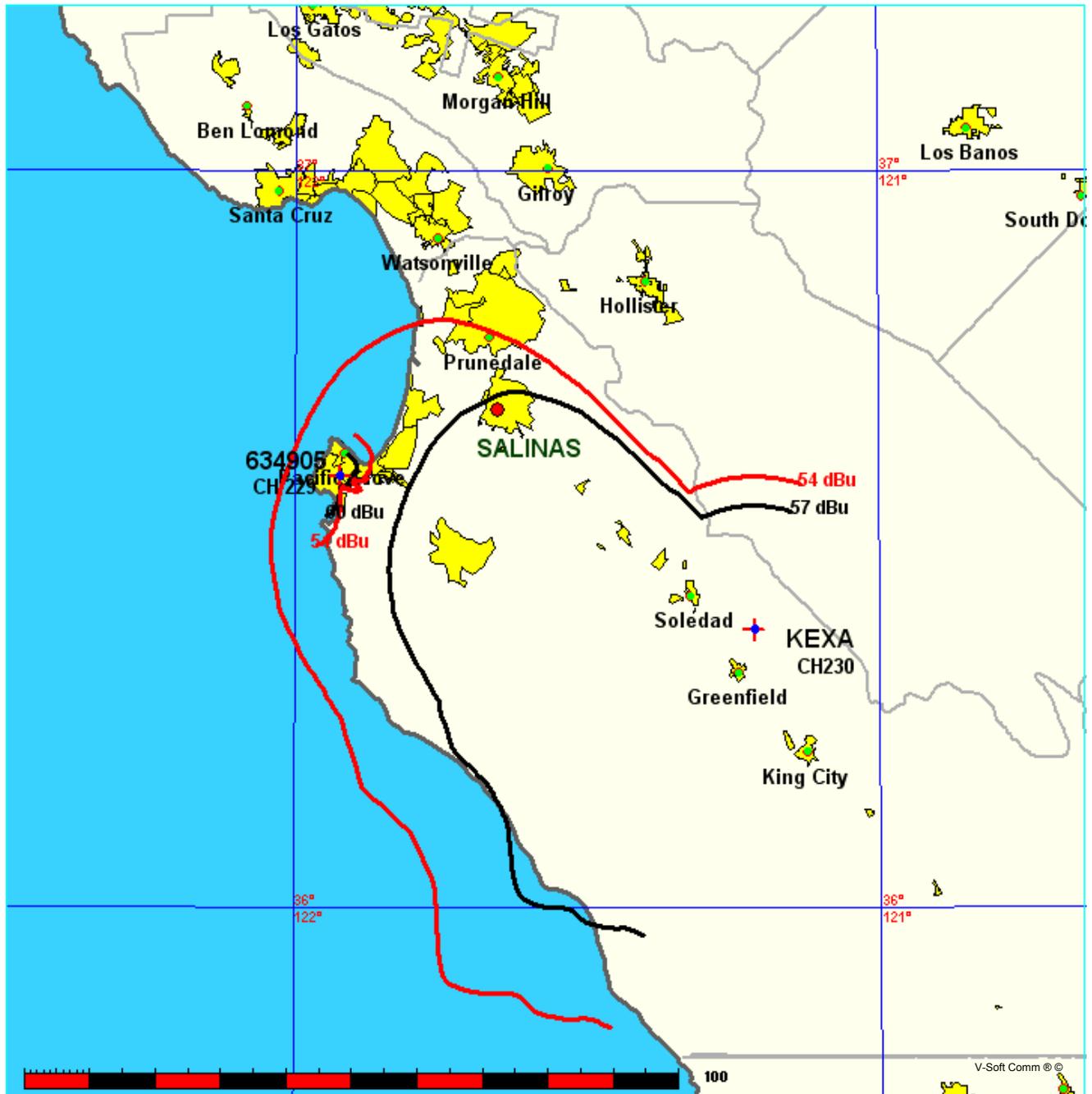


New Monterey Translator - KEXA
Pacifica Foundation, Inc.

FMCommander Single Allocation Study - 04-05-2013 - FCC NGDC 30 Sec
634905's Overlaps (In= -10.14 km, Out= 6.74 km)

634905 CH 229 D DA
Lat= 36 35 11.0, Lng= 121 55 21.0
0.01 kW 173.5 M HAAT, 231 M COR
Prot.= 60 dBu, Intef.= 51 dBu

KEXA CH 230 B1 BLH19871223KC
Lat= 36 22 48.0, Lng= 121 12 57.0
5.4 kW 214 M HAAT, 458 M COR
Prot.= 57 dBu, Intef.= 54 dBu



New Monterey Translator - KXZM
Pacifica Foundation, Inc.

FMCommander Single Allocation Study - 04-05-2013 - FCC NGDC 30 Sec
634905's Overlaps (In= -30.39 km, Out= 11.06 km)

634905 CH 229 D DA
Lat= 36 35 11.0, Lng= 121 55 21.0
0.01 kW 173.5 M HAAT, 231 M COR
Prot.= 60 dBu, Intef.= 37 dBu

KXZM CH 229 B1 73.215 Z BLH20120316ADG
Lat= 37 09 35.0, Lng= 121 54 32.0
0.41 kW 690 M HAAT, 1038 M COR
Prot.= 57 dBu, Intef.= 40 dBu

