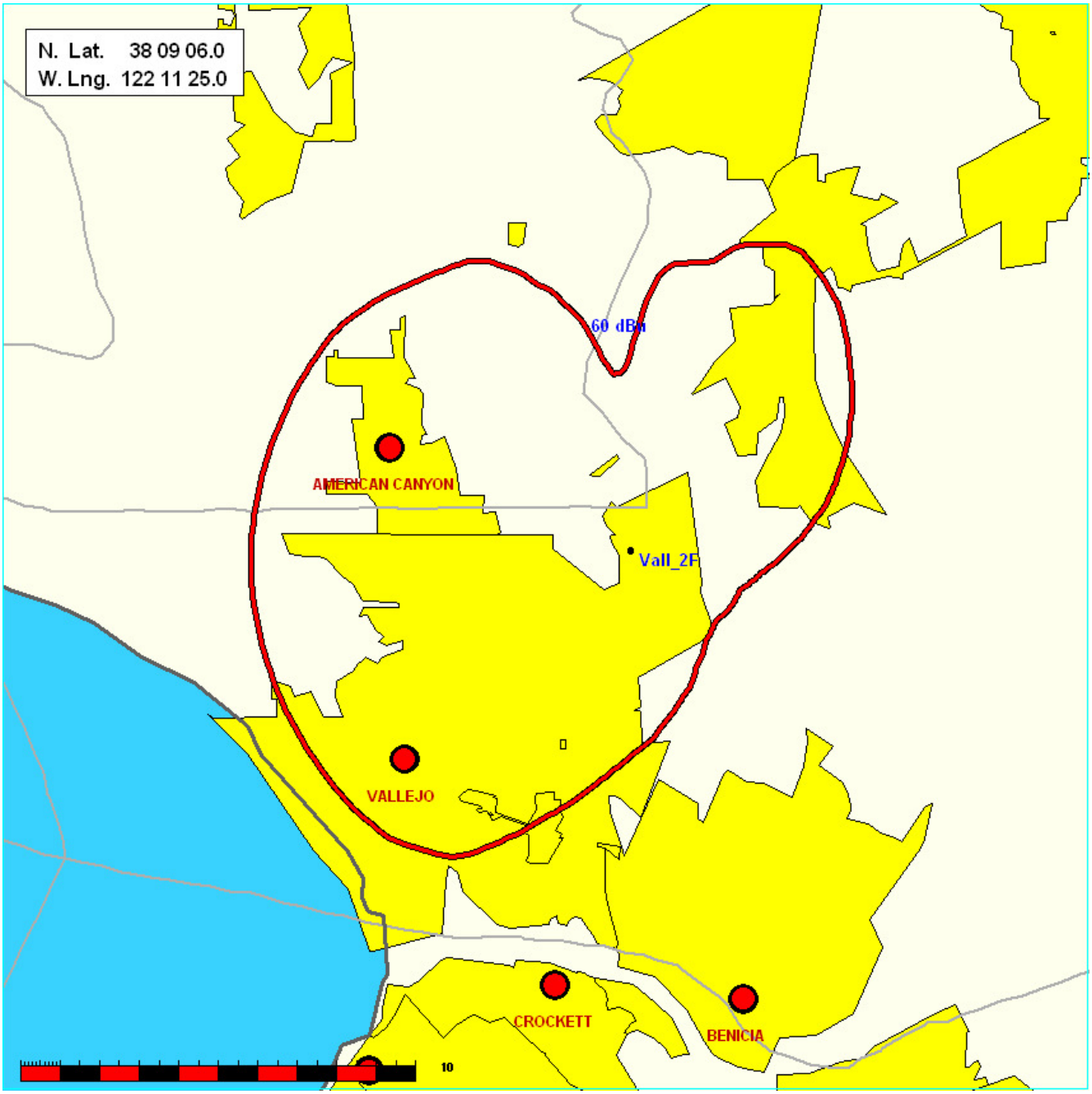
CFI
PO BOX 4301 – DAVIS, CA – 95617

Consolidated Engineering Exhibits
FCC Form 340 – Section VII

Vallejo, CA
for Ozcat

Exhibit 14 – Community of Coverage



60 dbu F(50,50)

APP 208 A Dom Int 0.007 kW 264 M HAAT M
Vallejo CA 343.0 M COR AMSL
Lat= 38 09 06.0, Lng= 122 11 25.0
Area[1] = 155 sq km
FCC F(50-50) 60.00 dBu 2000 US Census (SF1): 116,653

[1] Area = 164.1 (total contour) – 8.64 (water channel) = 155.46

Exhibit 16 – Contour Overlap Protection: Reserved Band

The proposed facility meets the contour overlap requirements of §73.509 with respect to all other reserved-band stations, as shown by attached channel report and contour maps. All calculations were made using methods described in 47 CFR §73.313(c).

Channel Study - Vallejo, CA
Prepared by CFI

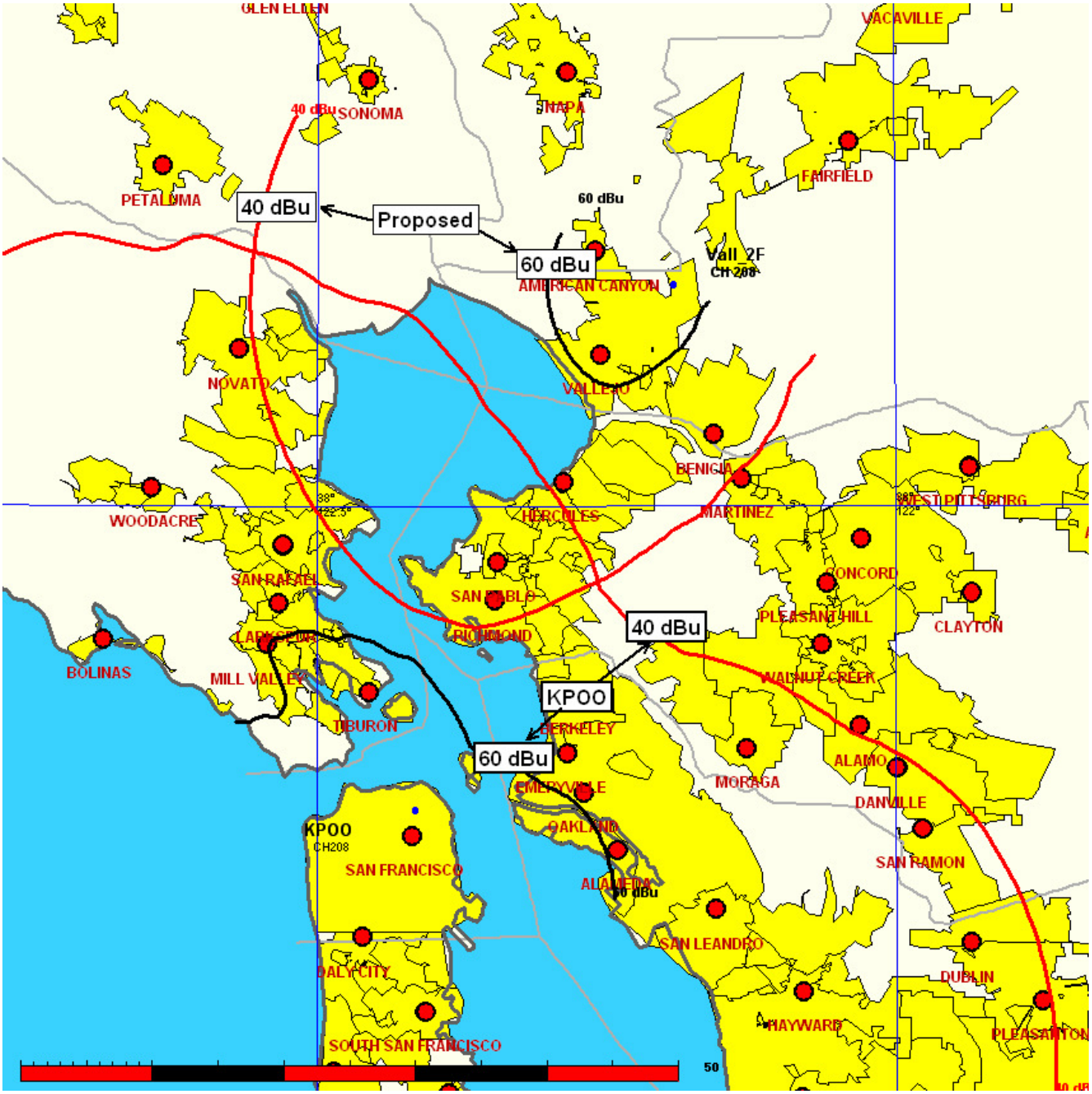
REFERENCE — CH# 208A - 89.5 MHz, Pwr= 0.007 kW, HAAT= 263.8 M, COR= 343 M — DISPLAY DATES
38 09 06.0 N. — Average Protected F(50-50)= 8.6 km — DATA 06-17-08
122 11 25.0 W. — Standard Directional — SEARCH 06-20-08

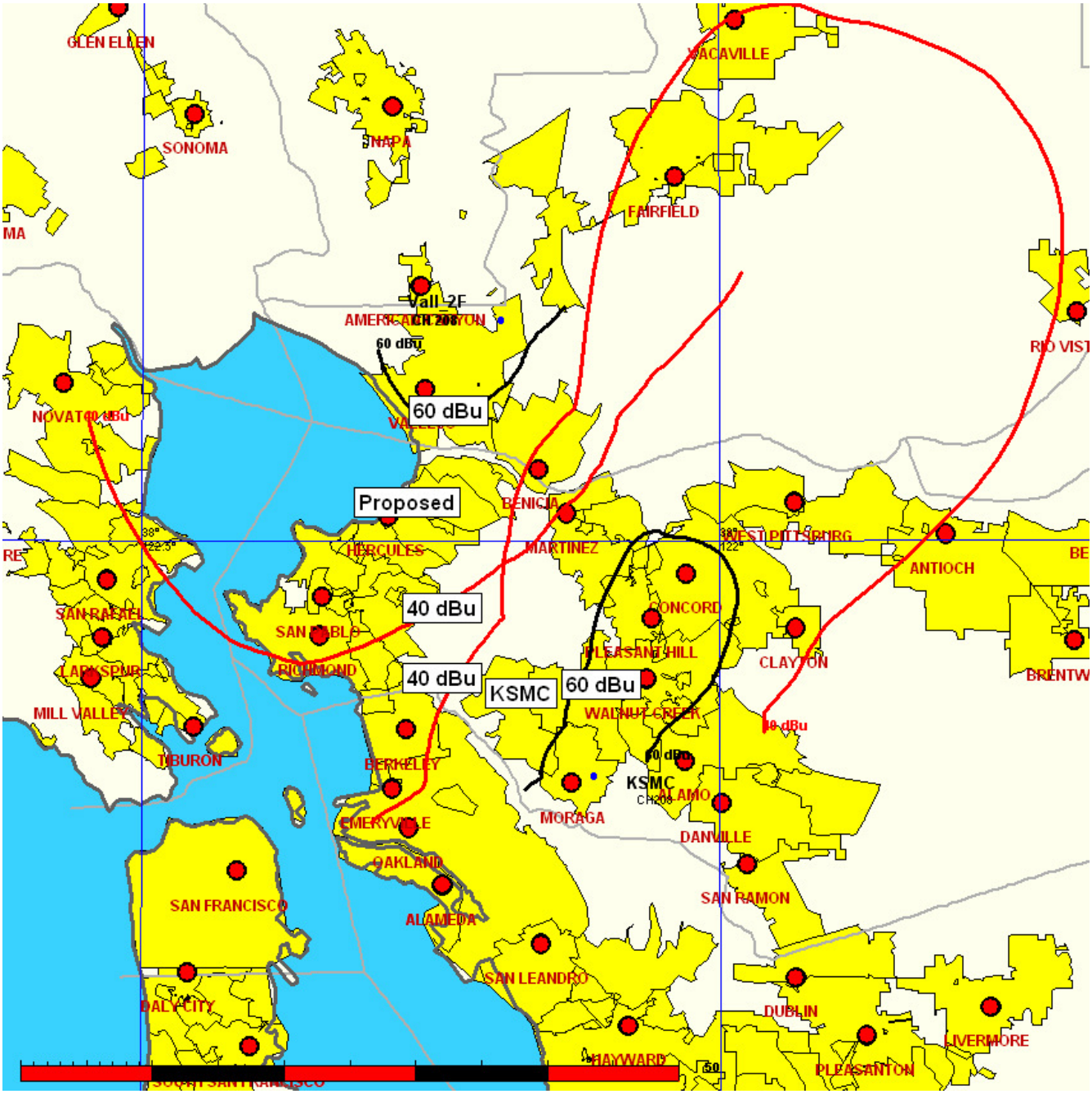
CH CALL / CITY	TYPE	ANT	AZI. <--	DIST	FILE #	LAT. / LNG.	Pwr(kW) / HAAT(M)	INT(km) / COR(M)	PRO(km) / LICENSEE	*IN* (Overlap in km)	*OUT*
06Z2E KVIE Sacramento	LI	HN	77.2 257.6	61.38 BLET20030328ANE		38 16 18.0 121 30 22.0	100.000 550	2.6 553	124.8 Kvie, Inc.	196.0R	-66.1M
207A NEW Pierce	CP	DCX	124.6 304.7	9.58 BNPED20071022AIO		38 06 10.0 122 06 01.0	0.200 -31	6.3 22	4.4 Centro De Intercesion Y Ad	0.45	0.53
209B KLRS Lodi	CP	DCX	77.2 257.6	61.48 BMPED20070827AEH		38 16 18.0 121 30 18.0	2.500 487	50.0 489	32.1 Educational Media Foundati	6.44	21.43
208A KSMC Moraga	LIC	DHN	168.5 348.5	35.27 BLED19840702CA		37 50 25.0 122 06 36.0	0.800 24	24.3 205	7.2 Associated Students Of St.	6.54	11.66
208A KPOO San Francisco	LIC	DHN	206.3 26.1	44.47 BLED19800304AC		37 47 33.0 122 24 52.0	0.270 165	25.6 188	7.6 Poor People's Radio, Inc.	10.46	8.42
205B KXPR Sacramento	LIC	DCN	77.1 257.5	61.69 BLED19950926KB		38 16 25.0 121 30 11.0	50.000 150	5.3 152	48.3 California State Universit	51.32	13.33
210B KNDL Angwin	LIC	CN	326.4 146.1	69.17 BLED19840711DA		38 40 09.0 122 37 53.0	0.800 925	2.0 1341	55.6 Howell Mountain Broadcasti	58.68	13.42
207A KPFB Berkeley	LIC	DHN	192.9 12.9	31.83 BLED19910909KB		37 52 20.0 122 16 18.0	0.460 -30	11.3 72	8.0 Pacifica Foundation, Inc.	13.95	14.18
208B1 KPRA Ukiah	LIC	C	320.2 139.6	140.37 BLED19990803KD		39 07 01.0 123 13 54.0	1.600 346	116.8 780	45.8 Family Stations, Inc.	14.78	65.37
206B KBBF Santa Rosa	LIC	CN	326.7 146.5	67.19 BLED1118		38 39 23.0 122 36 54.0	0.420 844	1.4 1241	48.3 Bilingual Broadcasting Fou	57.25	18.75
207A 1213978 Woodacre	APP	DVX	247.5 67.2	41.82 BNPED20071017AAK		38 00 25.4 122 37 49.6	0.200 62	0.2 204	0.1 Multisensory Interactive L	32.02	28.12
205B KXPR Sacramento	APP	DCX	65.2 245.7	80.88 BPED20070518AAY		38 27 12.0 121 20 55.0	50.000 138	6.0 155	52.3 California State Universit	68.89	28.52
211B KYCC Stockton	CP	DCX	104.8 285.4	82.56 BPED19971007IG		37 57 30.0 121 16 55.0	41.000 107	4.7 116	43.5 Your Christian Companion N	74.72	39.05
207A KQEI-FM North Highlands	CP	DCX	44.6 225.0	87.62 BPED20070906AER		38 42 38.0 121 28 54.0	3.100 108	39.3 122	25.9 Northern California Public	40.51	50.54
207A KQEI-FM North Highlands	LIC	DVN	44.6 225.0	87.62 BLED19911223KA		38 42 38.0 121 28 54.0	3.100 108	39.3 122	25.9 Northern California Public	40.51	50.54
208A 1213899 Tracy	APP	DVX	131.3 311.8	83.66 BNPED20071022AOK		37 39 10.0 121 28 38.0	0.050 94	39.7 354	12.0 Peace And Justice Network	41.11	59.93
261A KZST Santa Rosa	LIC	C	305.2 124.9	51.80 BLH19991015ABU		38 25 07.0 122 40 33.0	6.000 75	0.0 255	0.0 Redwood Empire Stereocaste	10.0R	41.8M
209B1 KFJC Los Altos	LIC	C	177.3 357.4	92.34 BMLED19961105KB		37 19 14.0 122 08 29.0	0.110 562	45.4 820	29.1 Foothill-de Anza Community	41.85	55.54
208B1 KVMR Nevada City	LIC	C	40.8 221.6	161.74 BLED20001020AAK		39 14 47.0 120 57 48.0	1.750 345	107.6 1205	41.7 Nevada City Community Broa	46.01	92.71
205B KXPR Sacramento	APP	CX	65.5 246.1	97.71 BPED20070518AAY		38 30 42.1 121 10 13.8	50.000 101	5.5 161	49.0 California State Universit	86.21	48.58
207A KLSI Moss Beach	LIC	DE	201.3 21.1	70.20 BLED20060216ABB		37 33 44.0 122 28 46.0	0.008 498	12.8 581	8.6 Educational Public Radio,	49.70	50.45
207A KLSI	CP	DCX	201.3	70.20		37 33 44.0	0.008	12.8	8.6	49.70	50.45

Moss Beach		CA	21.1	BPED20070822AEA	122 28 46.0	498	581	Educational Public Radio,					
207A KOHL	LIC	DEN	159.7	72.71	37 32 14.0	0.145	8.8	6.2	59.93	60.19			
Fremont		CA	339.9	BLED19930503KA	121 54 14.0	124	329	Fremont-newark Community C					

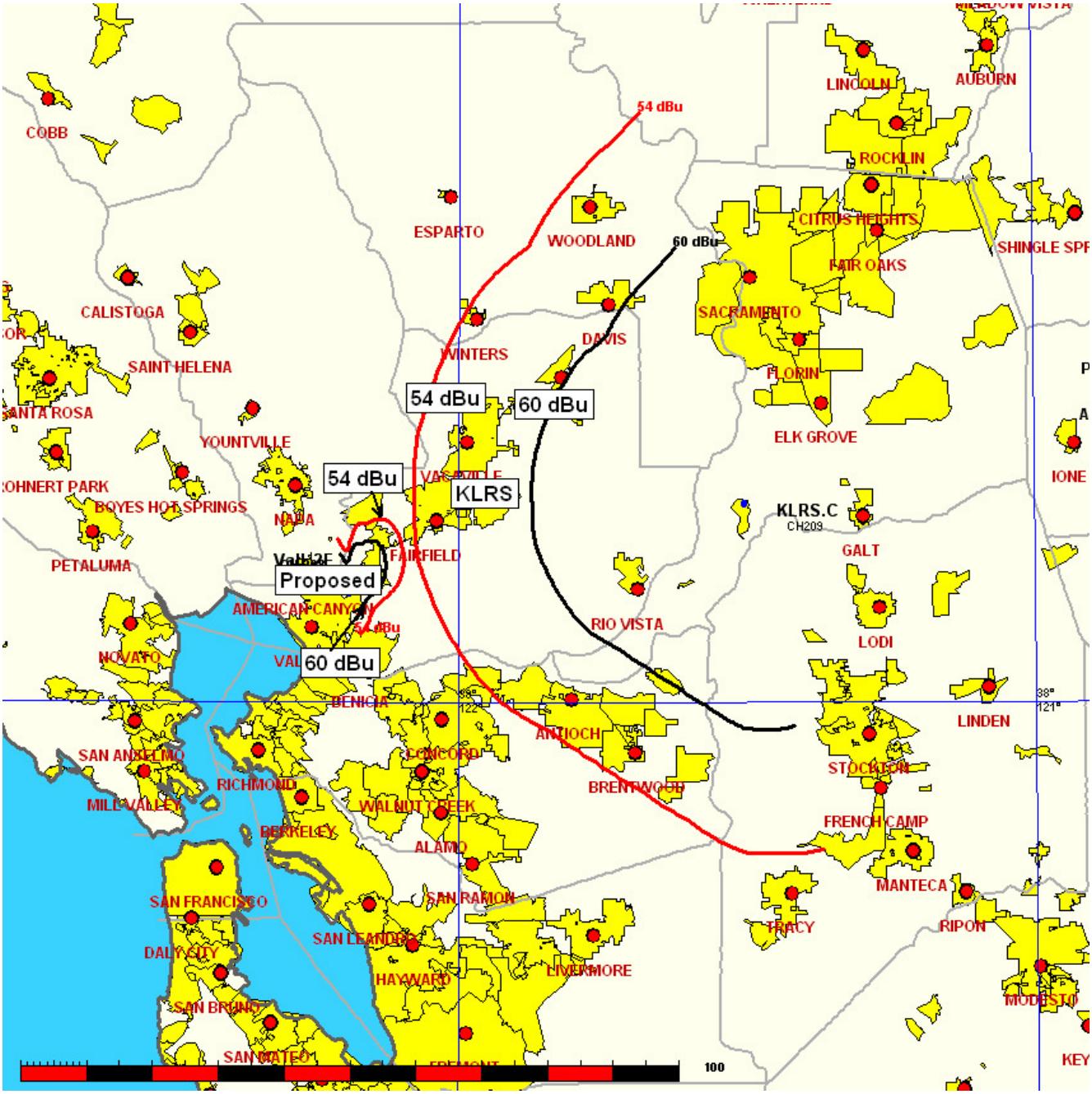
Terrain database is NGDC 30 SEC, R= 73.215 qualifying spacings or FCC minimum spacings in KM, M= Margin in KM
Contour distances are on direct line to and from reference station. Reference Zone = 1A, Co to 3rd adjacent.
Ant Column: (D= DA Standard, Z= DA 73.215, N= Not DA 73.215, _= Omni), Polarization (C,H,V,E), Beamtilt(Y,N,X)

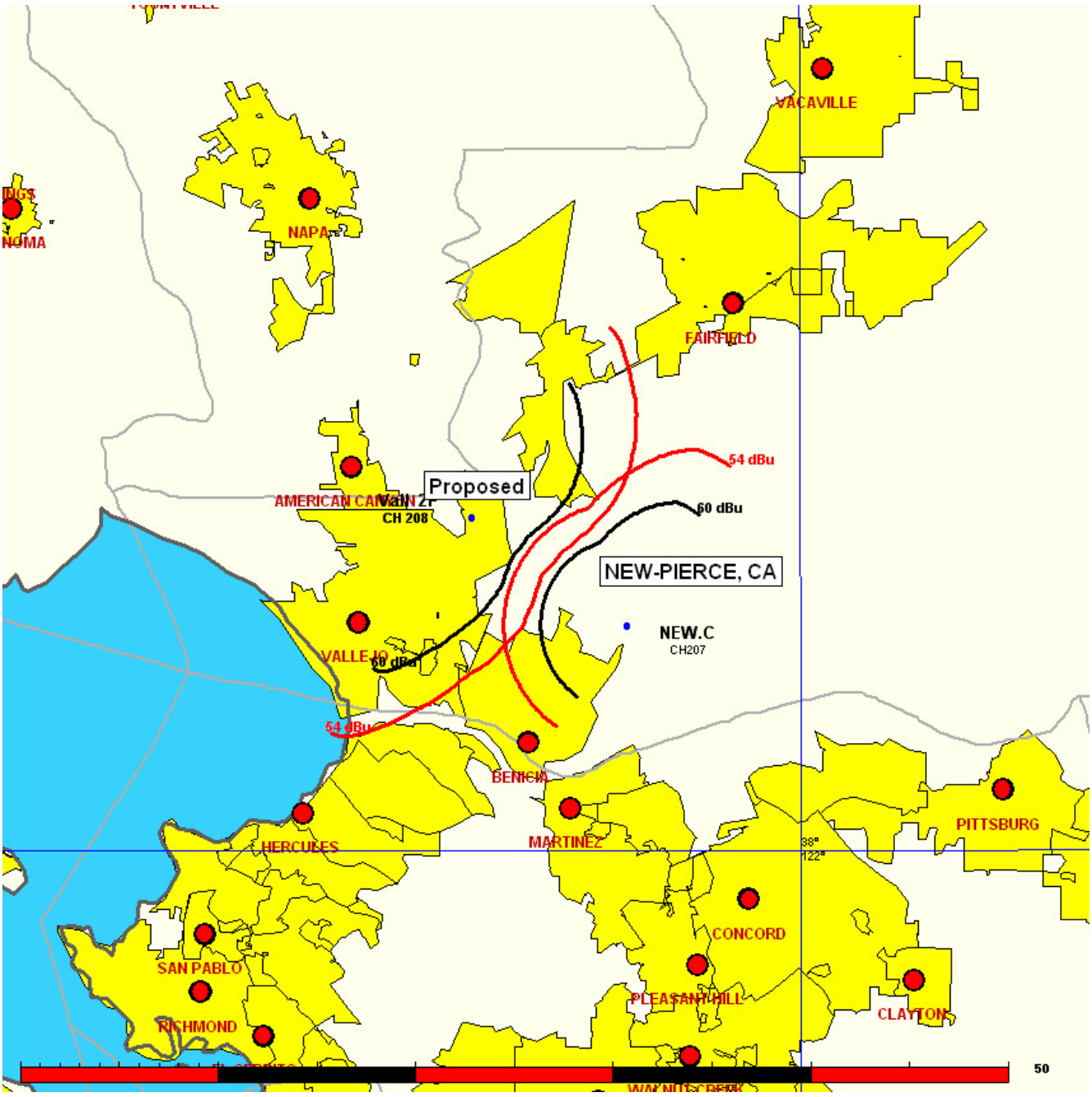
16 - Co-channel Contour Protection




GLEN ELLEN
SONOMA
NAPA
VACAVILLE
FAIRFIELD
Vall_2F
CH 206
60 dBu
60 dBu
Proposed
40 dBu
40 dBu
KSMC
60 dBu
KSMC
CH 206
BENICIA
MARTINEZ
HERCULES
SAN RAFAEL
SAN PABLO
RICHMOND
LARKSPUR
MILL VALLEY
TIBURON
BERKELEY
EMERYVILLE
OAKLAND
ALAMEDA
SAN FRANCISCO
DALY CITY
SAN LEANDRO
HAYWARD
MORAGA
WALNUT CREEK
PLEASANT HILL
CONCORD
ANTIOCH
CLAYTON
ALAMO
DANVILLE
SAN RAMON
DUBLIN
PLEASANTON
LIVERMORE
50

16 – First Adjacent Contour Protection




VACAVILLE
NAPA
FAIRFIELD
54 dBu
Proposed
60 dBu
AMERICAN CANYON
CH 208
NEW-PIERCE, CA
NEW.C
CH207
VALLEJO
60 dBu
54 dBu
BENICIA
MARTINEZ
PITTSBURG
HERCULES
38°
122°
CONCORD
SAN PABLO
PLEASANT HILL
CLAYTON
RICHMOND
50

Spacing Requirements

The proposed station meets spacing requirements in Section 73.207 for the following I.F.

261A	KZST	LIC	C	305.2	51.80		38 25 07.0	6.000	0.0	0.0	10.0R	41.8M
Santa Rosa			CA	124.9	BLH19991015ABU		122 40 33.0	75	255	Redwood Empire Stereocaste		

I.F. Requires 10 km, Proposed has 51.8 km, margin of 41.8 km

Channel 6 Study

See Channel Six Exhibit

(Continue)

Exhibit 22: Non-Ionizing Electromagnetic Radiation (NEIR) Analysis

For Ozcat (Vallejo, CA)

The Effective Radiated Power for proposed will be 7 watts. The antenna will be located on a small tower on a mountain east of urbanized Vallejo, CA.

The OET program FM Model for Windows, Version 2.10 Beta was used to determine the maximum predicted RF exposure. The settings used were:

Antenna: Shively Model 6513/6510 Vertical Dipole
Horizontal ERP (W): 0
Vertical ERP (W): 7
Antenna Height (m): 4
Number of Elements: 1

Using these settings, the maximum predicted RF exposure for a human standing on the ground would be 11.5 $\mu W/cm^2$ at 2.4 m.

The proposed antenna would be co-located at a site that already has a broadcast facility. KVYN-FM1, a booster for KVYN (FM) is additionally located there. Using FM Model, we chose a "worst case scenario" antenna to model the radiation from KVYN-FM1:

Antenna: Phelps-Dodge "Ring Stub" or Dipole
Horizontal ERP (W): 7
Vertical ERP (W): 0
Antenna Height (m): 6
Number of Elements: 1

Using these settings, the maximum predicted RF exposure for a human standing on the ground would be 4.05 $\mu W/cm^2$ at 2.2 m.

The total level near the base of the tower would be at most (11.5 + 4.05 $\mu W/cm^2$) = 15.55 $\mu W/cm^2$. This level is below the FCC Maximum Permissible Exposure (MPE) of 200 $\mu W/cm^2$ for uncontrolled environments.

The antenna site is located on private property on a mountaintop in a rural setting. Uncontrolled access to the site is limited.

The will have all necessary RF exposure hazards to tower climbers posted. If and when climbing the tower is necessary, transmitter power will be reduced or operation will cease, as necessary. This will be in cooperation with other emitters on the tower so as not to exceed the MPE limits for the climbers.