

Allocation Considerations

Exhibit 16 page 2-3 shows that no prohibited overlap occurs with any domestic licensed or allocated FM facility. There are no prohibited IF relationships.

A 3 second terrain database was used for all of the attached calculations and exhibits.

The applicant believes that the proposed facilities meet all of the pertinent requirements of 47 CFR §73.509.

Washington State University

Washington State University

KSWB-FM Amendment

REFERENCE	CH#	205C3 - 88.9 MHz, Pwr= 1 kW, HAAT= 306.0 M COR= 475 M	DISPLAY DATES							
46 33 16.0 N. 123 03 26.0 W.		Average Protected F(50-50)= 31.54 km Omni-directional	DATA 08-06-09 SEARCH 08-07-09							
CH CITY	CALL	TYPE ANT STATE	ANT AZI <--	DIST FILE #	LAT LNG	PWR(kW) HAAT(M)	INT(km) COR(M)	PRO(km) LICENSEE	*IN* (Overlap in km)	*OUT*
205C3 KSWB Chehalis Amended 960611	CP _EX WA	0.0 0.0	0.0 BPED19960325MD	46 33 16.0 123 03 26.0	1.000 306	89.6 475	33.2 Washington State Universit	-122.8*	-122.8*	
206C1 KMHD Gresham	LIC _CY OR	167.7 347.9	118.1 BLED20050603ABW	45 30 58.0 122 43 59.0	7.900 437	84.2 528	56.3 Mt. Hood Community College	1.1	12.3	
206C3 1213845 Montesano 10/31/2008: Accepted on channel	APP DEX WA	309.6 129.1	66.5 BNPED20071018AAG	46 56 00.0 123 43 53.0	11.700 100	20.6 185	13.8 Samsno Educational Media	12.0	1.4<	
			206B1 by Industry Canada in 10/8/2008 letter.				Note: not specially negot			
206A 1216411 Hoquiam 9/15/2008: Accepted on channel	APP DCX WA	309.7 129.2	66.5 BNPED20071018ASM	46 56 01.0 123 43 48.0	2.000 112	19.8 199	13.2 Pacific Lutheran Universit	12.7	1.9	
			206A by Industry Canada in 8/29/2008 letter.				Note: not specially negoti			
206A 1211812 Hoquiam 10/31/2008: Accepted on channel	APP DVX WA	310.5 130.0	65.7 BNPED20071018AZK	46 56 07.4 123 42 50.2	4.850 109	17.0 195	11.7 Sacred Heart Radio, Inc.	14.6	2.5	
			206A by Industry Canada in 10/10/2008 letter.				Note: not specially negot			
206C2 1216996 Long Beach 10/3/2008: Accepted on channel	APP DCX WA	279.4 98.8	65.2 BNPED20071022AXK	46 38 48.7 123 53 53.1	34.700 83	15.6 135	11.1 Washington State Universit	18.0	6.5	
			206B by Industry Canada in 9/26/2008 letter.				Note: not specially negotia			
208A KJVH Longview Vertically Polarized Only	LIC _VN WA	160.1 340.3	46.1 BLED19870630KA	46 09 52.0 122 51 13.0	0.100 238	0.7 427	19.7 Family Stations, Inc.	14.0	24.4	
204A KLOY Astoria	LIC _CX OR	243.3 62.7	71.5 BLED20060410ABZ	46 15 46.0 123 53 09.0	0.250 321	31.2 365	21.0 Educational Media Foundati	16.3	14.5	
207A KAOS Olympia	LIC _CX WA	11.8 191.9	52.4 BLED20011228AAV	47 00 58.0 122 54 57.0	1.250 74	1.7 149	18.1 The Evergreen State Colleg	16.5	32.3	
206D K206CL Chinook	LIC _V_ WA	245.4 64.8	71.1 BLFT20000825AGM	46 17 10.0 123 53 50.0	0.013 375	15.5 424	10.9 Calvary Chapel Of Twin Fal	30.3	22.1	
205C1 AL4713 Victoria specially negotiated, short-spaced allotment limited to 20kW ERP and 528.5m HAAT or the equivalent along 17 0.7 degrees towards 205B1 in Chehalis, WA	BC _ —	351.0 170.7	229.8	48 35 41.0 123 32 37.0	100.000 299	169.3 447	86.0	27.6	35.3	
205A 1201458 Cannon Beach 9/24/2008: Accepted on channel	APP DVX OR	217.4 36.7	113.0 BNPED20071019AFA	45 44 39.0 123 56 23.0	0.175 412	41.5 509	12.1 Tillicum Foundation	47.5	29.0	
			205A by Industry Canada in 9/9/2008 letter.				Note: not specially negotiat			
205A KMH Mercer Island	APP _CX WA	29.0 209.6	129.9 BNPED20071228ABS	47 34 21.0 122 13 05.0	0.030 69	21.2 131	6.4 Mercer Island School Distr	73.3	29.1	
205A 1210430 Manzanita 7/29/2008: Accepted on channel	APP DEX OR	217.4 36.7	113.0 BNPED20071017AGY	45 44 38.0 123 56 24.0	0.180 405	40.9 499	11.9 All Classical Public Media	48.1	29.2	
			205A by Industry Canada in 7/14/2008 letter.				Note: not specially negotia			
207C3 1214487 Cathlamet 9/24/2008: Accepted on channel	APP DVX WA	219.2 38.8	64.3 BNPED20071022A00	46 06 20.0 123 35 00.0	0.170 592	0.9 836	31.6 Cascade Community Radio	39.0	30.8	
			207B1 by Industry Canada in 9/5/2008 letter.				Note: not specially negotia			
207C3 1208565 Warrenton 7/21/2008: Accepted on channel	APP DVX OR	219.2 38.9	64.3 BNPED20071016AGZ	46 06 20.0 123 35 05.0	0.160 588	0.9 834	31.1 All Classical Public Media	39.0	31.4	
			207B1 by Industry Canada in 7/8/2008 letter.				Note: not specially negotia			
203C KPLU- FM Tacoma	LIC DC_ WA	37.5 218.2	133.8 BLED20080715ADJ	47 30 14.0 121 58 29.0	68.000 707	12.2 940	92.0 Pacific Lutheran Universit	86.5	39.8	
203C KPLU- FM Tacoma	LIC DCY WA	37.5 218.2	133.8 BLED19890925KA	47 30 14.0 121 58 29.0	58.000 714	11.5 940	90.3 Pacific Lutheran Universit	87.2	41.5	
207A KRYA Glenoma 4/11/2008: Accepted on channel	CP _EX WA	90.5 271.3	76.5 BNPED20071019AFR	46 32 37.0 122 03 36.0	1.000 -289	1.6 366	10.2 Northwest Indy Radio	42.9	64.3	
			207A by Industry Canada in 3/12/08 letter,				not specially negotiated.			

CH CITY	CALL	TYPE STATE	ANT	AZI <- -	DIST FILE #	LAT LNG	PWR(kW) HAAT(M)	INT(km) COR(M)	PRO(km) LICENSEE	Page # 2 *IN* (Overlap in km)	*OUT*
06-T Newberg	KOXO-CA	AP OR	___N	168.1 348.3	117.2 BMPTVA20090605ABJ	45 31 21.0 122 44 45.0	3.000 479	23.0 525	43.3 Watchtv, Inc.	224.5R	51.0M
205C1 Victoria	NEW	PRO BC	DCN	351.0 170.7	229.8	48 35 41.0 123 32 37.0	5.900 454	129.6 615	67.1	67.4	54.1
204C1 Sandy	KLVP	LIC OR	_EX	142.1 323.0	171.1 BLED20080409ACI	45 20 01.0 121 42 45.0	3.700 532	83.9 1878	56.5 Educational Media Foundati	56.4	68.1
206L1 Pacific Beach	KXPB-LP	LIC WA	___	310.7 129.9	114.4 BLL20041124AEL	47 13 07.0 124 12 13.0	0.017 71	4.9 98	3.4 Pacific Beach Food Bank	75.4	59.5
06-T Newberg	KOXO-CA	CP OR	___N	168.1 348.3	117.2 BDISTVA20081006AIS	45 31 21.0 122 44 45.0	0.012 479	23.0 525	11.2 Watchtv, Inc.	224.5R	83.0M
06 Victoria	VACANT	GR BC	_HN	358.1 178.0	247.0 BPFS20081121ACB	48 46 28.0 123 10 10.0	0.580 496	38.4 508	64.3	224.5R	144.3M

Terrain database is USGS 03 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 = 2, 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)
 "*"affixed to 'IN' or 'OUT' values = site inside protected contour.
 Reference station has protected zone issue: Canada

Exhibit # 16
 Washington State University
 Page 3 of 8

FMCommander Single Allocation Study - 08-07-2009 - USGS 03 SEC
KSWs.C's Overlaps (In= 18.03 km, Out= 6.51 km)

KSWs.C CH 205 C3

Lat= 46 33 16.0, Lng= 123 03 26.0

1.0 kW 306 M HAAT, 475 M COR

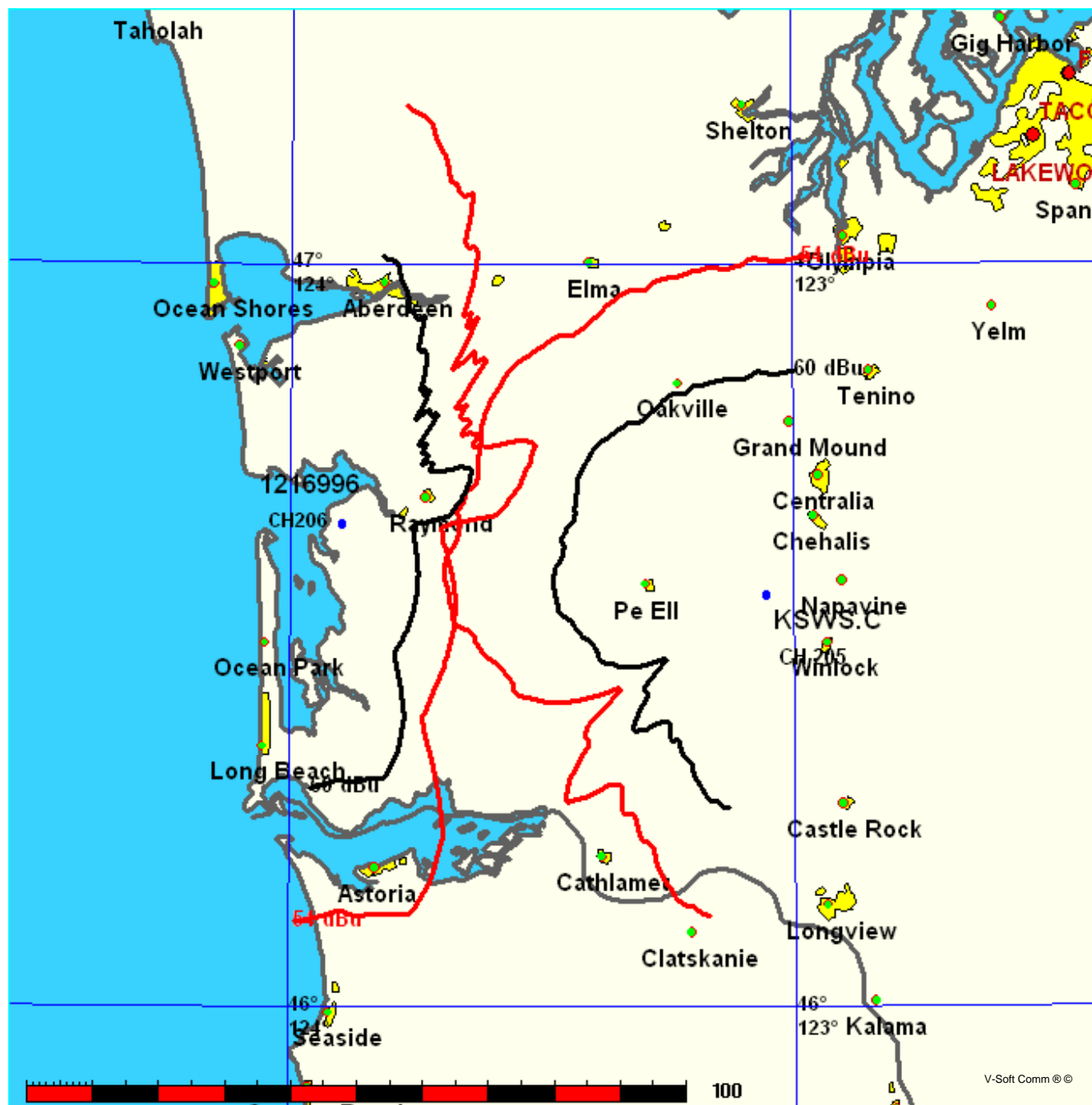
Prot.= 60 dBu, Intef.= 54 dBu

1216996 CH 206 C2 DA BNPED20071022AXK

Lat= 46 38 48.7, Lng= 123 53 53.1

34.7 kW 83 M HAAT, 135.4 M COR

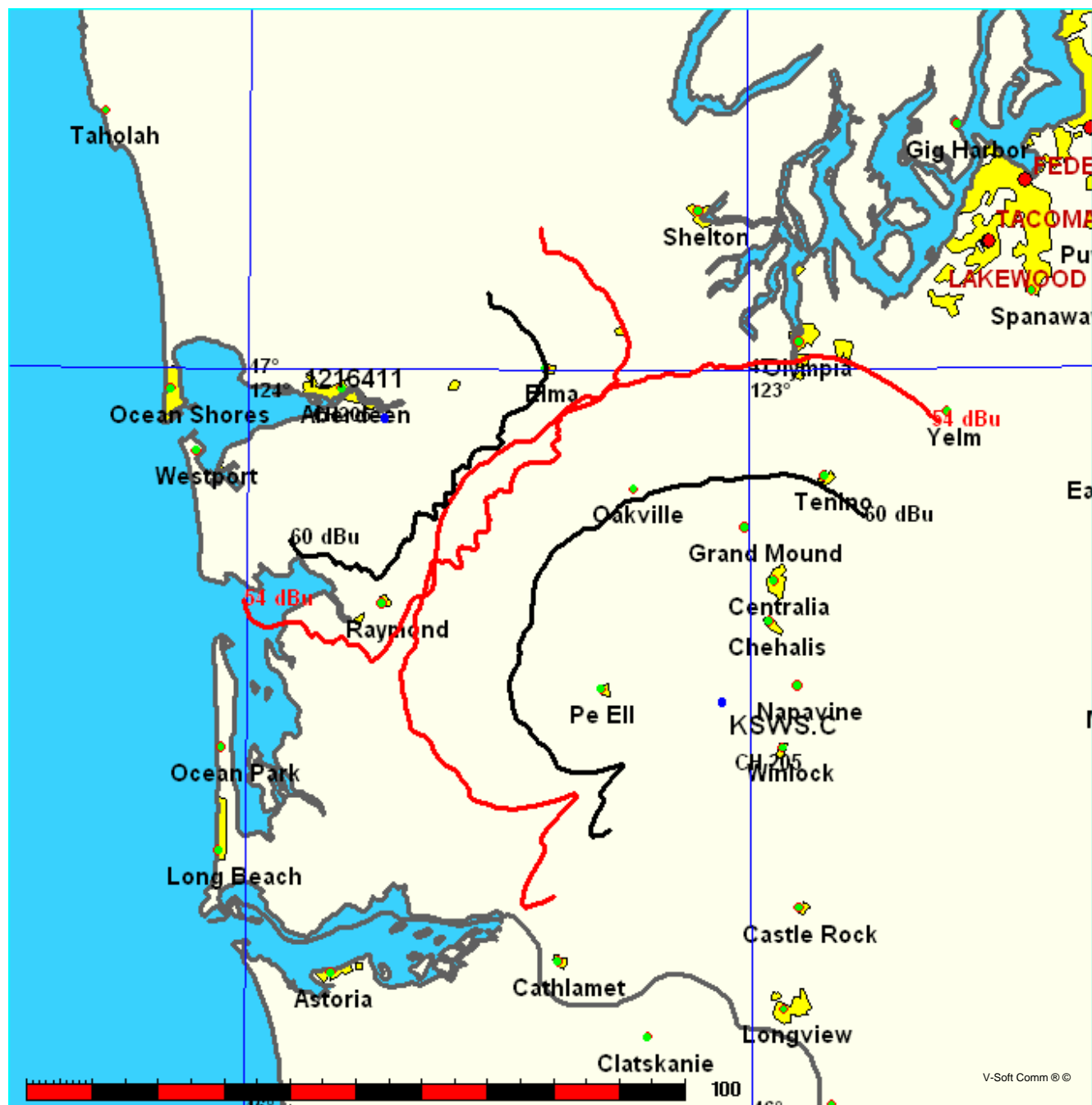
Prot.= 60 dBu, Intef.= 54 dBu



FMCommander Single Allocation Study - 08-07-2009 - USGS 03 SEC
KSWs.C's Overlaps (In= 12.73 km, Out= 1.91 km)

KSWs.C CH 205 C3
Lat= 46 33 16.0, Lng= 123 03 26.0
1.0 kW 306 M HAAT, 475 M COR
Prot.= 60 dBu, Intef.= 54 dBu

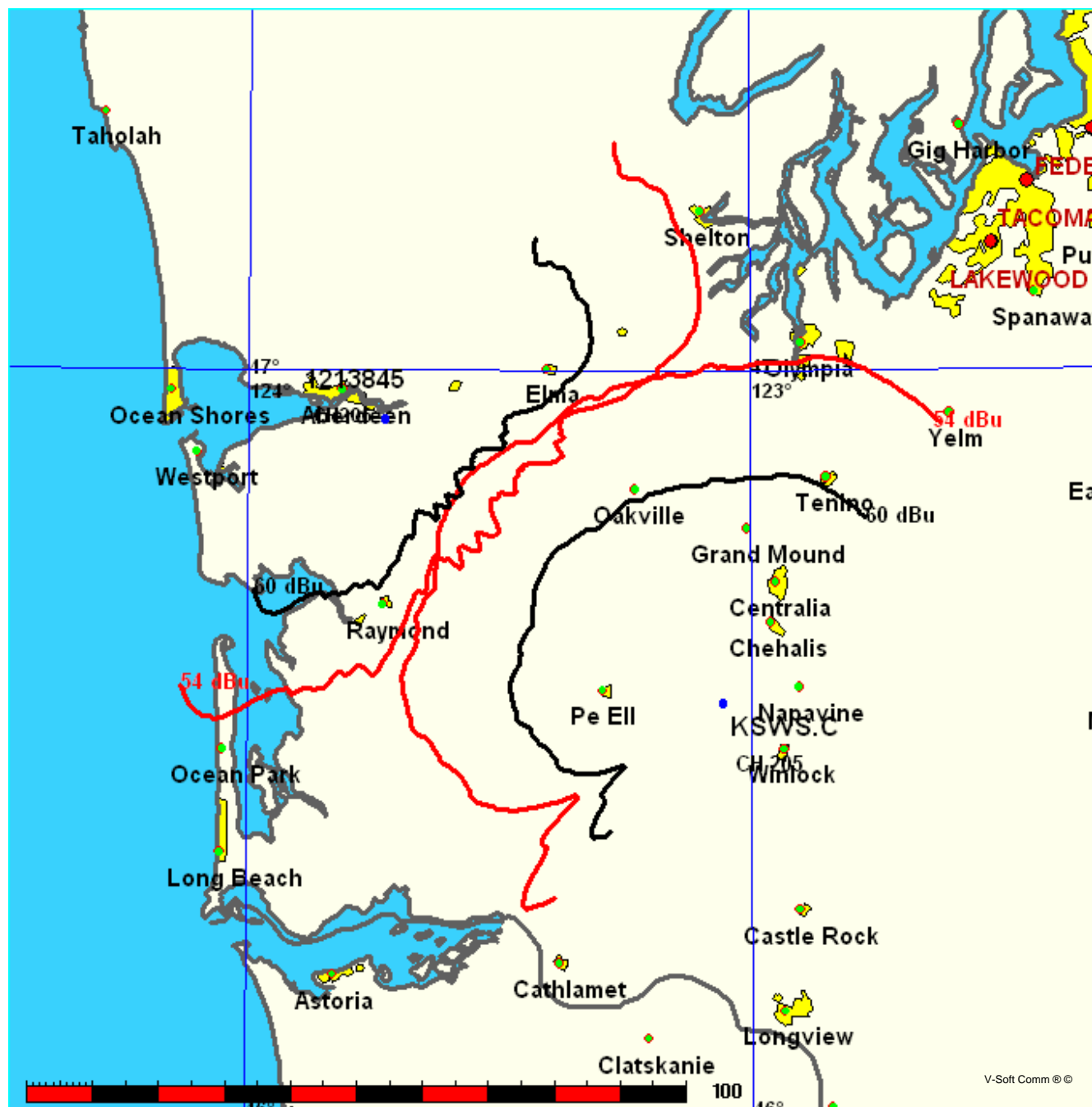
1216411 CH 206 A DA BNPED20071018ASM
Lat= 46 56 01.0, Lng= 123 43 48.0
2.0 kW 112 M HAAT, 199 M COR
Prot.= 60 dBu, Intef.= 54 dBu



FMCommander Single Allocation Study - 08-07-2009 - USGS 03 SEC
KSWs.C's Overlaps (In= 11.96 km, Out= 1.44 km)

KSWs.C CH 205 C3
Lat= 46 33 16.0, Lng= 123 03 26.0
1.0 kW 306 M HAAT, 475 M COR
Prot.= 60 dBu, Intef.= 54 dBu

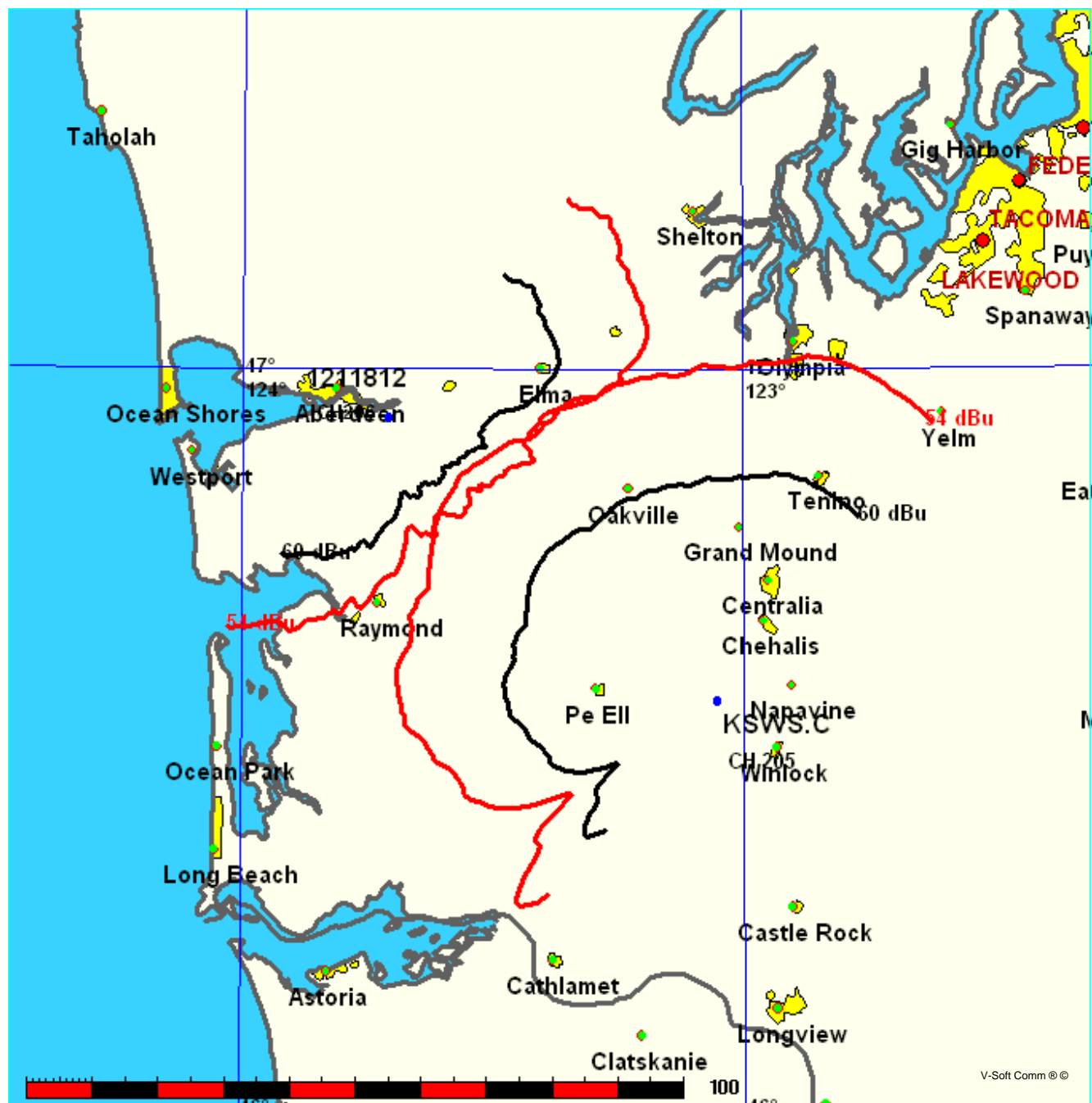
1213845 CH 206 C3 DA BNPED20071018AAG
Lat= 46 56 00.0, Lng= 123 43 53.0
11.7 kW 100 M HAAT, 185 M COR
Prot.= 60 dBu, Intef.= 54 dBu



FMCommander Single Allocation Study - 08-07-2009 - USGS 03 SEC
KSWs.C's Overlaps (In= 14.62 km, Out= 2.51 km)

KSWs.C CH 205 C3
Lat= 46 33 16.0, Lng= 123 03 26.0
1.0 kW 306 M HAAT, 475 M COR
Prot.= 60 dBu, Intef.= 54 dBu

1211812 CH 206 A DA BNPED20071018AZK
Lat= 46 56 07.4, Lng= 123 42 50.2
4.85 kW 109 M HAAT, 195 M COR
Prot.= 60 dBu, Intef.= 54 dBu



FMCommander Single Allocation Study - 08-07-2009 - USGS 03 SEC
KSWS.C's Overlaps (In= 1.08 km, Out= 12.28 km)

KSWS.C CH 205 C3
Lat= 46 33 16.0, Lng= 123 03 26.0
1.0 kW 306 M HAAT, 475 M COR
Prot.= 60 dBu, Intef.= 54 dBu

KMHD CH 206 C1 BLED20050603ABW
Lat= 45 30 58.0, Lng= 122 43 59.0
7.9 kW 437 M HAAT, 528 M COR
Prot.= 60 dBu, Intef.= 54 dBu

