

Channel Study

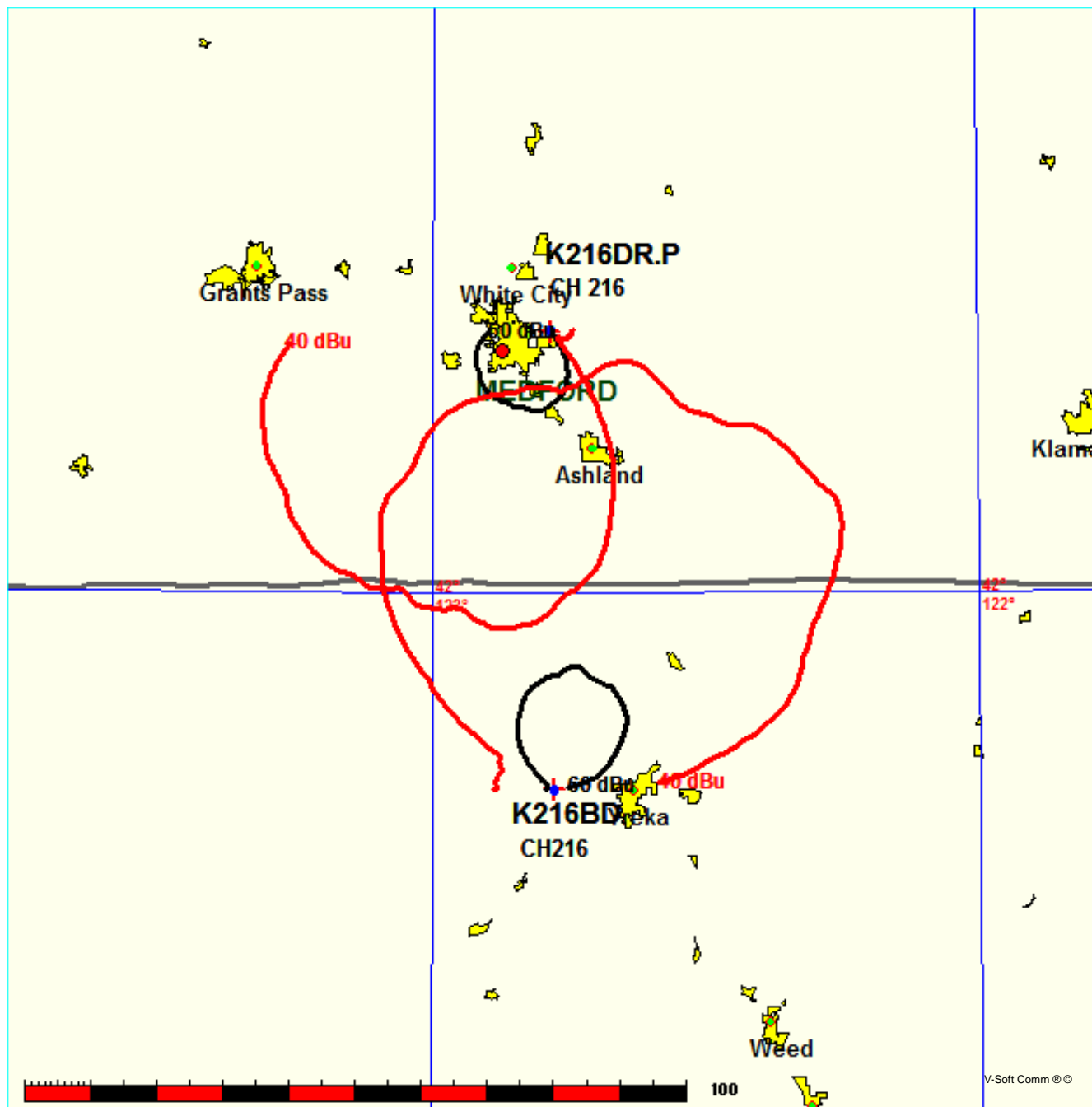
REFERENCE		CH# 216D - 91.1 MHz, Pwr= 0.01 kW DA, HAAT= 488.1 M, COR= 1095 M								DISPLAY DATES	
42 21 12.0 N.		Average Protected F(50-50)= 12.5 km								DATA 10-09-12	
122 47 08.0 W.		Standard Directional								SEARCH 10-09-12	
CH CITY	CALL	TYPE STATE	ANT STATE	AZI. <--	DIST FILE #	LAT. LNG.	Pwr(kW) HAAT(M)	INT(km) COR(M)	PRO(km) LICENSEE	*IN* (Overlap in km)	*OUT*
216D Central Point	K216DR	CP	DC OR	154.7 334.7	6.8 BPFT20120404ACQ	42 17 52.0 122 45 00.0	0.008	44.2 1165	11.9 Educational Media Foundati	-43.5*	-27.5*
216D Central Point	K216DR	LIC	DCN OR	153.4 333.4	6.7 BLFT19990528UB	42 17 57.0 122 44 56.0	0.008 420	39.7 1177	10.4 Educational Media Foundati	-38.6*	-24.6*
219C2 Medford	KDOV	LIC	CN OR	193.4 13.4	6.6 BLED19950811KB	42 17 44.0 122 48 15.0	26.000 -111	2.3 588	22.9 Ucb Usa, Inc.	-7.9*<	-16.5*<
214D Ashland	K214BO	LIC	DVN OR	155.6 335.7	7.1 BLFT19930106TE	42 17 43.0 122 45 00.0	0.007 355	0.2 1117	11.0 Family Stations, Inc.	0.5	-4.0*<
216D Fort Jones, Etc.	K216BD	LIC	DHN CA	179.4 359.4	68.4 BLFT19880801TI	41 44 14.0 122 46 36.0	0.295 741	59.8 1864	16.8 Oregon St Board Of Higher	-2.4<	9.9
215C1 Klamath Falls	KSKF	LIC	E OR	106.3 287.1	99.3 BLED19960111KX	42 05 50.0 121 37 59.0	6.500 687	99.7 2004	67.8 Oregon St Board Of Higher	-0.8*<	30.7
06ZT Chemult	K06LI	LI	DHN OR	39.1 219.9	137.3 BLTTTV19900830IK	43 18 19.0 121 42 56.0	0.067 664	3.1 2064	21.4 Npg Of Oregon, Inc.	24.5R	112.7M
217C2 Yreka	KNYR	LIC	CN CA	170.8 350.9	83.6 BLED19951012KB	41 36 36.0 122 37 26.0	0.400 721	66.9 1817	44.9 Oregon St Board Of Higher	6.7	23.6
216A Grants Pass	KAPK	LIC	CX OR	286.3 105.9	44.5 BLED20020402AAE	42 27 51.0 123 18 19.0	0.500 22	28.5 508	8.5 American Family Associatio	12.7<	15.7
217A Glendale	KUSF	CP	DCX OR	316.7 136.4	52.7 BNPED20071022AOM	42 41 48.6 123 13 38.8	0.070 784	35.1 1570	22.6 Common Frequency, Inc.	17.2	29.2
217D Grants Pass, Etc.	K217BZ	LIC	DCN OR	279.1 98.8	41.3 BLFT19940915TC	42 24 39.0 123 16 52.0	0.040 328	17.8 841	12.2 Oregon St Board Of Higher	17.3	18.5
215D Cave Junction, Etc.	K215AR	LIC	HN OR	262.0 81.4	73.0 BLFT19841016TP	42 15 31.0 123 39 43.0	0.078 542	41.8 1226	26.8 Oregon St Board Of Higher	20.7	28.9
216D Happy Camp	K216EC	LIC	DV CA	220.5 40.2	72.3 BLFT20061011AAD	41 51 29.0 123 21 09.0	0.010 519	14.3 1426	3.8 Calvary Chapel Of Twin Fal	45.0	20.9
213D Grants Pass	K213CF	LIC	V OR	316.7 136.4	52.7 BLFT20040903ABM	42 41 49.0 123 13 39.0	0.010 796	0.2 1579	15.5 Calvary Chapel Of Twin Fal	52.0	37.2
06 D Chiloquin	K06NS-D	LI	N OR	96.5 277.2	85.5 BLDTV20090126ABJ	42 15 45.0 121 45 22.0	0.193 406	0.1 1669	44.9 California Oregon Broadcas	45.0R	40.5M
215C2 Coos Bay	KJCH	LIC	CX OR	299.5 118.5	139.3 BLED20061211ACY	42 57 32.0 124 16 23.0	3.500 446	72.7 689	48.1 Calvary Chapel Of Twin Fal	66.2	90.3
214D Yreka	K214BS	LIC	DVN CA	170.9 351.0	83.8 BLFT19950607TE	41 36 30.0 122 37 31.0	0.010 712	0.2 1792	16.1 Pacific Cascade Communicat	73.6	67.6
06 T Fort Jones, Etc.	K06KA	CP	D N CA	186.2 6.1	99.1 BDFCDTV20111026AEG	41 28 00.0 122 54 50.0	0.021 283	3.1 1131	21.4 KtvL Licensee, Llc	24.5R	74.5M
06NT Fort Jones, Etc.	K06KA	LI	DHN CA	186.2 6.1	99.1 BLTTTV19800528ID	41 28 00.0 122 54 50.0	0.021 782	4.1 1631	15.4 KtvL Licensee, Llc	19.5R	79.5M

KM
 Terrain database is NGDC 30 SEC, R= 73.215 qualifying spacings or FCC minimum spacings in KM, M= Margin in
 Contour distances are on direct line to and from reference station. Reference Zone= West Zone, 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.
 < = Contour Overlap

FMCommander Single Allocation Study - 10-09-2012 - NGDC 30 SEC
K216DR.P's Overlaps (In= -2.45 km, Out= 9.93 km)

K216DR.P CH 216 D DA
Lat= 42 21 12.0, Lng= 122 47 08.0
0.01 kW 488.1 M HAAT, 1095 M COR
Prot.= 60 dBu, Intef.= 40 dBu

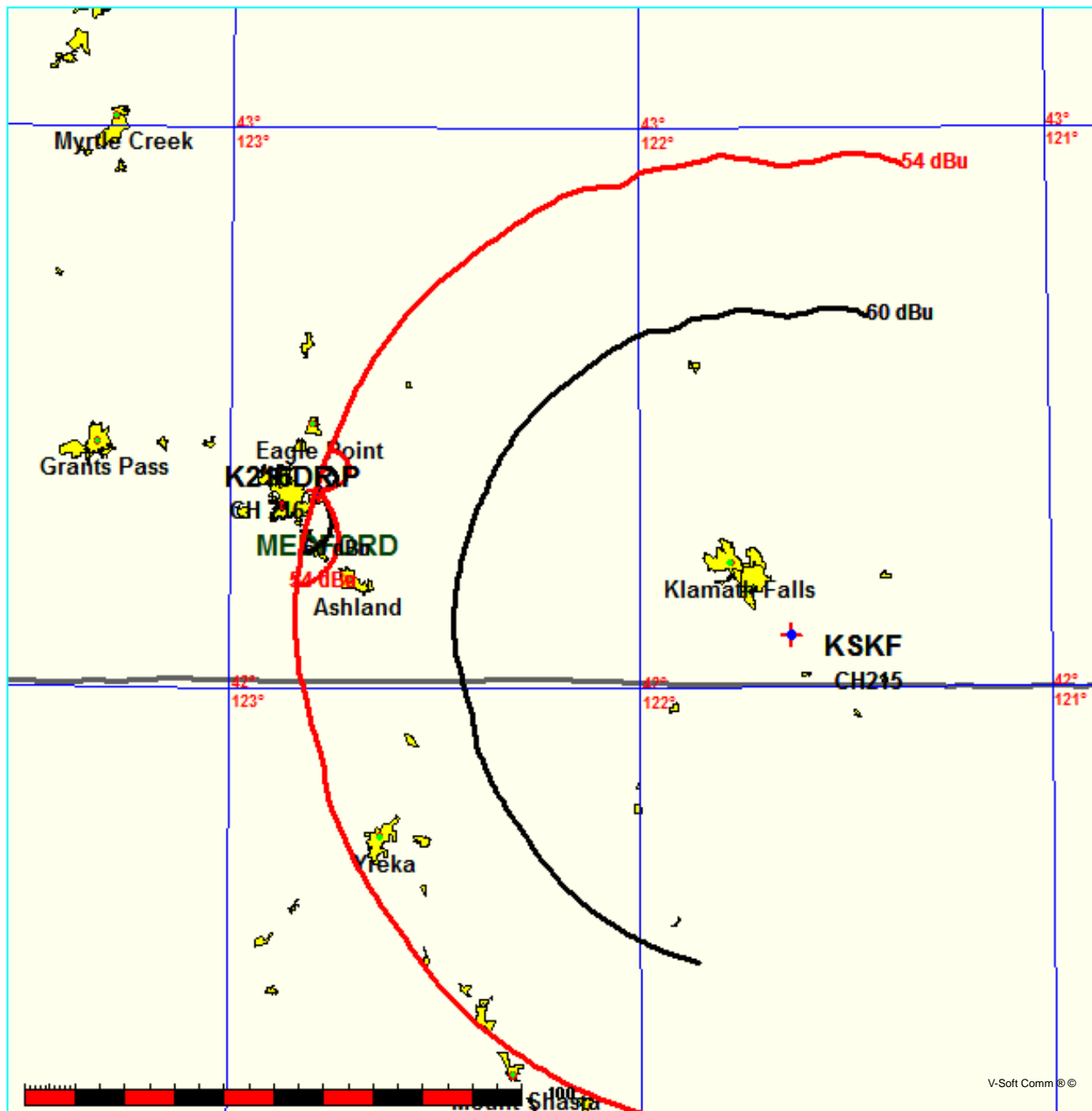
K216BD CH 216 D DA BLFT19880801TI
Lat= 41 44 14.0, Lng= 122 46 36.0
0.295 kW 741 M HAAT, 1864 M COR
Prot.= 60 dBu, Intef.= 40 dBu



FMCommander Single Allocation Study - 10-09-2012 - NGDC 30 SEC
K216DR.P's Overlaps (In= -0.83 km, Out= 30.65 km)

K216DR.P CH 216 D DA
Lat= 42 21 12.0, Lng= 122 47 08.0
0.01 kW 488.1 M HAAT, 1095 M COR
Prot.= 60 dBu, Intef.= 54 dBu

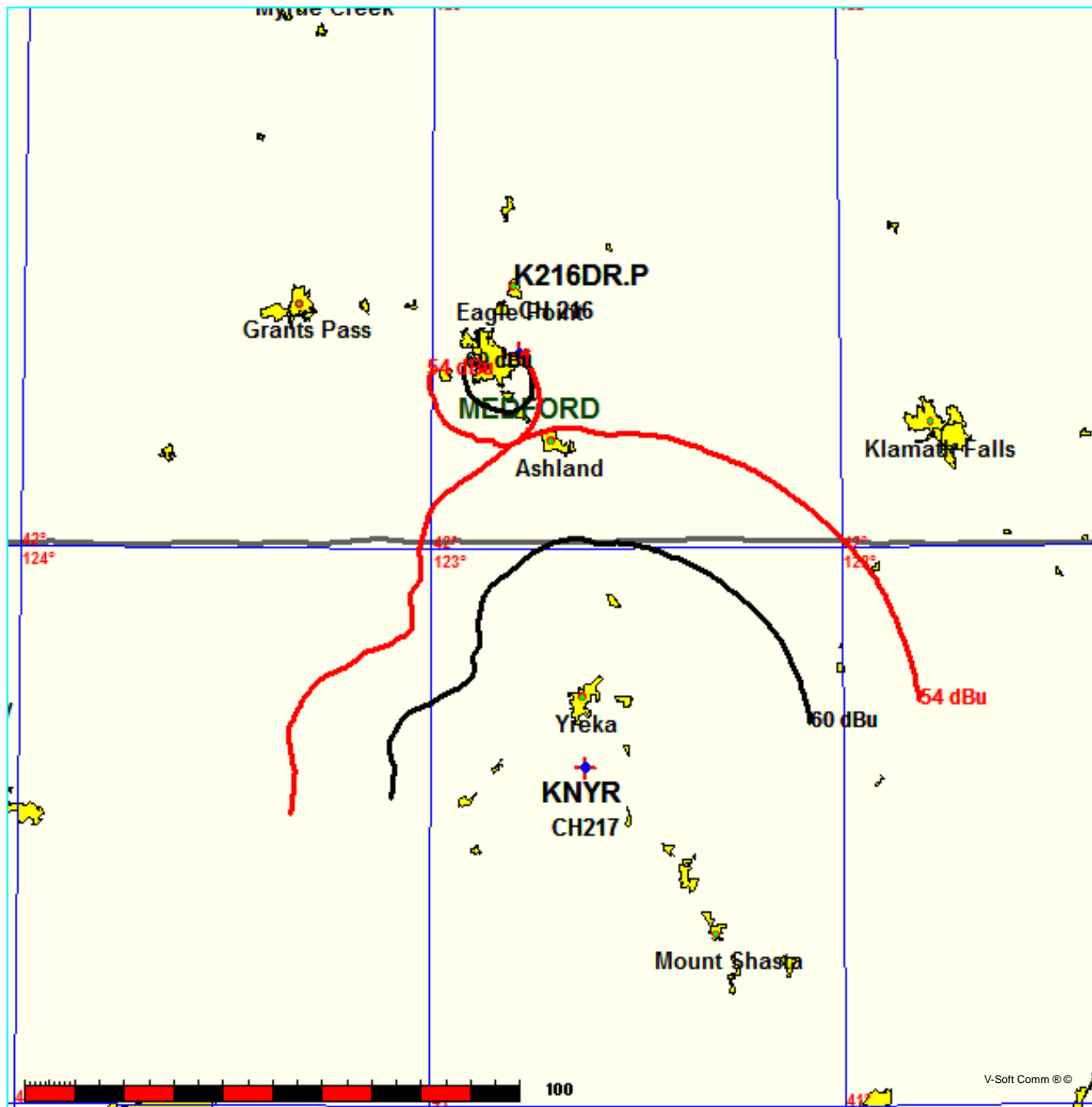
KSKF CH 215 C1 BLED19960111KX
Lat= 42 05 50.0, Lng= 121 37 59.0
6.5 kW 687 M HAAT, 2004 M COR
Prot.= 60 dBu, Intef.= 54 dBu



FMCommander Single Allocation Study - 10-09-2012 - NGDC 30 SEC
K216DR.P's Overlaps (In= 6.74 km, Out= 23.6 km)

K216DR.P CH 216 D DA
Lat= 42 21 12.0, Lng= 122 47 08.0
0.01 kW 488.1 M HAAT, 1095 M COR
Prot.= 60 dBu, Intef.= 54 dBu

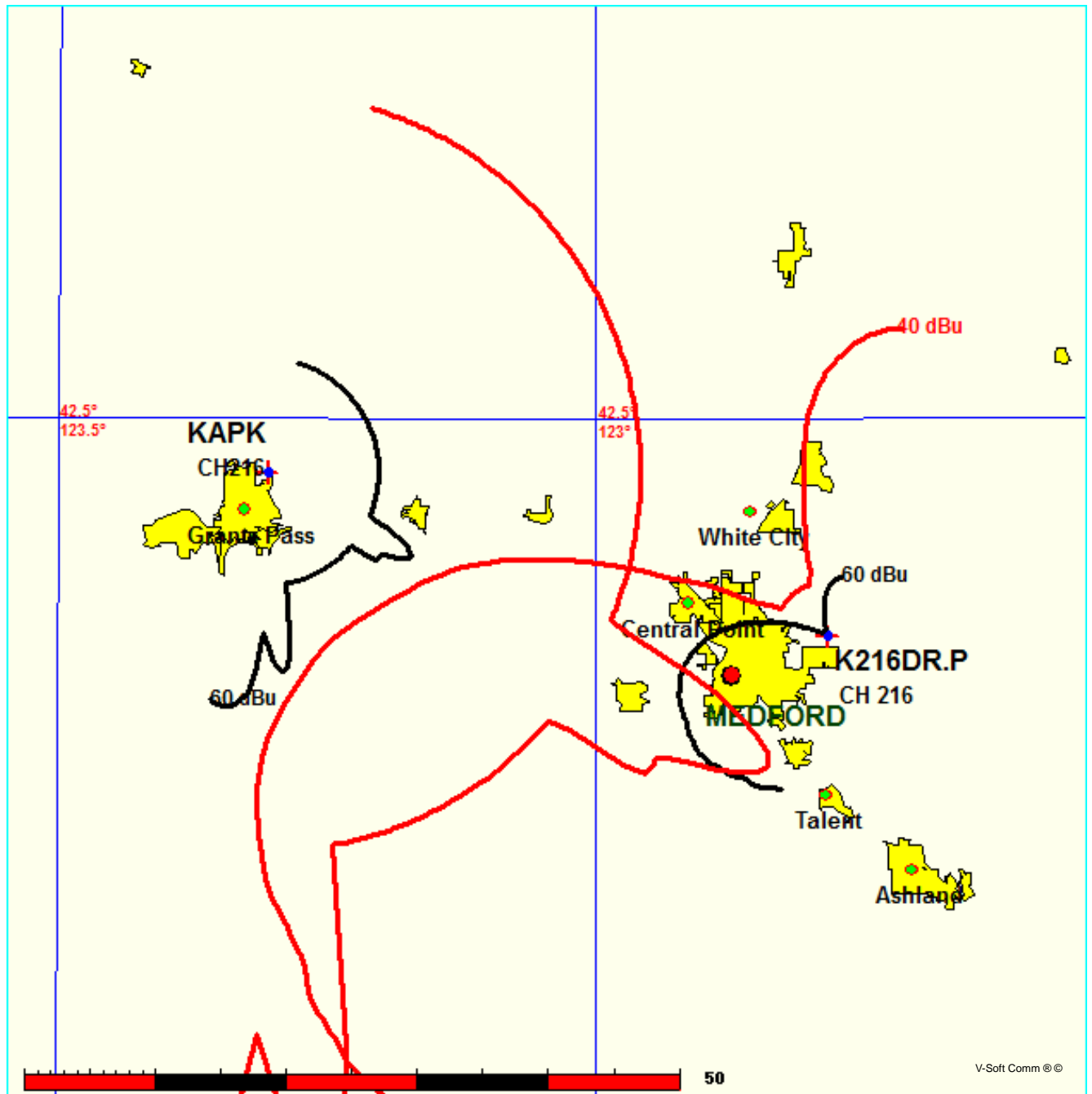
KNYR CH 217 C2 BLED19951012KB
Lat= 41 36 36.0, Lng= 122 37 26.0
0.4 kW 721 M HAAT, 1817 M COR
Prot.= 60 dBu, Intef.= 54 dBu



FMCommander Single Allocation Study - 10-09-2012 - NGDC 30 SEC
K216DR.P's Overlaps (In= 12.71 km, Out= 15.67 km)

K216DR.P CH 216 D DA
Lat= 42 21 12.0, Lng= 122 47 08.0
0.01 kW 488.1 M HAAT, 1095 M COR
Prot.= 60 dBu, Intef.= 40 dBu

KAPK CH 216 A BLED20020402AAE
Lat= 42 27 51.0, Lng= 123 18 19.0
0.5 kW 22 M HAAT, 508 M COR
Prot.= 60 dBu, Intef.= 40 dBu



Compliance with C.F.R. 74.1204

The proposed FM Translator is located within the protected 60 dBu contour of third adjacent channel station KDOV, channel 219C, Medford, OR. According to 74.1204(a)(3), in order to protect second and third adjacent facilities, the difference in dBu between the two facilities must not exceed 40dBu.

The proposed ERP for K216DR:	10 watts
The proposed COR AG for K216DR:	17 meters
KDOV F(50/50) contour at proposed site:	81.4 dBu
The F(50/10) contour of proposed K216DR	121.4 dBu
The predicted distance to K216DR interference contour	18.9 meters

As can be seen in Exhibit 13–A1, there are no regularly occupied structures at the base of the tower and there are no regularly occupied structures within the 18.9 meter interfering distance from the base of the tower.

The proposed FM Translator is also located within the protected 60 dBu contour of second adjacent channel station K214BO, channel 214D, Ashland, OR. According to 74.1204(a)(3), in order to protect second and third adjacent facilities, the difference in dBu between the two facilities must not exceed 40dBu.

The proposed ERP for K216DR:	10 watts
The proposed COR AG for K216DR:	17 meters
K214BO F(50/50) contour at proposed site:	65.5 dBu
The F(50/10) contour of proposed K216DR	105.5 dBu
The predicted distance to K216DR interference contour	117.5 meters

Educational Media Foundation
5700 West Oaks Boulevard
Rocklin, CA 95765

Exhibit 13-A
Central Point, OR

As can be seen in Exhibit 13–A1, there are no regularly occupied structures at the base of the tower and there are no regularly occupied structures within the 117.5 meter interfering distance from the base of the tower.

Therefore, EMF respectfully requests a waiver of C.F.R. 74.1204 based on no population within the area of predicted interference.



Google earth

feet
meters

800
200



NAD 27

42 21' 11.54" N

122 47' 08.32" W

Yellow Marker: 117.5M at 215 degrees true

Red Contour: 105.5dbu(F50-10) interfering contour