

ERP / TPO calculations for:

KPIJ -Junction City, OR

Entered by:	R. Gorney	Date:	10/23/2014	Calculations: Final	Watts
MHz:	88.5	Mounting Offset:	N/A		267
					ERP
Ant. / Gain	Qty/Lgth (or disc)	Loss @foot or item	total loss or gain		
	CA5CP (Scala)		6.0000		
	Enter Special Antenna	0.0000	0.0000		
FSJ type Ant jumper	0	0.0097	0.0000		
LDF type Ant. Jumper	0	0.0062	0.0000		
LDF4-50A (1/2" foam)	125	0.00622	-0.7775		
Enter a Non Listed Coax	0	0.0000	0.0000		
Connectors	2	0.0150	-0.0300		
Polyphaser Loss	0	0.1000	0.0000		
FSJ Tx jumper	0	0.0097	0.0000		
other FSJ jumper(s)	0	0.0097	0.0000		
Other	0	0	0.0000		
Filter(s)	TWPC-1005-2	0	0.0000		
Combiner	SP15499	0	0.0000		
Isolator	T-1030	0	0.0000		

TPO
81

Junction City KPIJ SE Bay Only Calvary Chapel Of Twin Falls, Inc. Average Protected F(50-50)= 35.35 km Standard Directional											
REFERENCE 44 16 44.0 N. 123 35 38.0 W.		CH#	203D	- 88.5	MHz, Pwr= 0.267 kW DA, HAAT= 684.6 M,	COR= 1041 M	DISPLAY DATES DATA 10-22-14 SEARCH 10-24-14				
CH CITY	CALL	TYPE STATE	ANT STATE	AZI ---	DI ST FILE #	LAT LNG	PWR(kW) HAAT(M)	INT(km) COR(M)	PRO(km) LICENSEE	*IN* (Overlap in km)	*OUT* (in km)
203C2	KPIJ Junction City	LIC DCX OR		0.0 0.0	0.00 BLED20080626ABB	44 16 44.0 123 35 38.0	0.550 705	84.7 1041	27.5 Calvary Chapel Of Twin Fal	-99.6*	-83.7*
06 D	1328857 Eugene	AP D_N OR		128.7 309.0	49.17 BNPDVL20090825ASQ	44 00 06.6 123 06 52.7	0.300 320	39.7 445	18.7 Mako Communications Lic	58.3R	-9.1M
06 D	1337136 Eugene	AP _N OR		120.2 300.5	48.76 BNPDVL20091020AAK	44 03 28.0 123 04 02.0	0.300 31	39.3 146	6.6 Live Sports Radio, Inc.	45.9R	2.9M
203A	KAVE Oakridge	LIC _HX OR		122.7 303.5	109.68 BLED20040220AAO	43 44 27.0 122 26 50.0	0.400 -392	26.9 399	8.0 Lane County School Distric	49.2	6.7
201A	KWVA Eugene	LIC DCX OR		119.4 299.7	44.49 BLED20100819ABH	44 04 55.0 123 06 34.0	1.000 54	1.7 232	20.2 Associated Students Of The	9.3	23.1
205C3	KQFE Springfield	LIC _CX OR		128.5 308.8	49.17 BMLLED20130716AAU	44 00 11.0 123 06 48.0	1.250 290	2.3 489	35.6 Family Stations Inc	12.9	12.4
204A	KBVR Corvallis	LIC _CN OR		38.5 218.7	40.59 BLED19810209AS	44 33 50.0 123 16 30.0	0.340 -25	10.9 116	7.7 Oregon State University	17.1	12.7
203A	KMUZ Turner	LIC DCX OR		40.0 220.4	73.51 BLED20111129ABU	44 47 00.0 122 59 44.0	0.032 242	37.3 352	11.2 Willamette Information, Ne	23.6	14.3
202A	KCGO Cottage Grove	LIC _CX OR		144.5 324.9	71.86 BLED20130613AAA	43 45 06.0 123 04 29.0	0.100 -89	8.0 245	5.6 Western Oregon Opry, Ltd.	32.5	17.3
202D	DK202BQ Florence, Etc.	LIC DHN OR		227.1 46.7	52.48 BLFT19911219TD	43 57 24.0 124 04 24.0	0.063 176	10.8 252	7.6 State Of Oregon, Et Al	26.2	20.2
203D	K219FJ Gleneden Beach	CP _C_ OR		333.8 153.5	75.15 BMPFT20140328AIY	44 53 04.0 124 00 55.0	0.170 121	29.2 121	8.9 Oregon Public Broadcasting	35.3	20.6
256C	KODZ Eugene	LIC _CX OR		110.7 291.1	50.87 BMLH20070606ABU	44 06 57.0 122 59 57.0	100.000 497	0.0 738	0.0 Biocoastal Media Licenses V	28.5R	22.4M
204D	K204CP Toleno	LIC _VN OR		320.8 140.5	52.63 BLFT19971209TF	44 38 40.0 124 00 52.0	0.062 138	10.0 200	7.0 Pensacola Christian Colleg	30.0	24.2
203A	KSBA Coos Bay	LIC _CN OR		203.7 23.3	107.69 BLED19881205KD	43 23 26.0 124 07 46.0	2.200 162	62.0 290	17.5 Oregon St Board Of Higher	33.0	42.9
201A	KLFO Florence	LIC _CX OR		227.1 46.8	52.47 BLED20050824ABL	43 57 26.0 124 04 26.0	0.250 167	1.1 254	16.1 Lane Community College	35.8	36.1
201C2	KQOC Gleneden Beach	LIC DCX OR		326.0 145.7	64.16 BLED20130107AAC	44 45 23.0 124 02 52.0	6.500 317	1.6 369	27.0 All Classical Public Media	50.8	37.0
203D	K203BE Roseburg	LIC DEN OR		171.2 351.3	120.60 BLFT19891227TA	43 12 22.0 123 21 56.0	0.092 103	33.8 368	10.0 Family Stations Inc	64.0	37.0
205A	KYOR Newport	LIC _CX OR		325.9 145.6	64.25 BMLLED20130716AAX	44 45 23.0 124 02 59.0	0.035 274	0.4 350	12.8 Family Stations Inc	52.1	51.4
206A	KLFR Reedsport	LIC _CX OR		213.1 32.7	73.71 BLED20021126ABV	43 43 21.0 124 05 40.0	0.700 109	1.6 188	11.1 Lane Community College	57.5	62.4
201C3	KGRI Lebanon	LIC DEX OR		73.9 254.6	83.77 BMLLED20120608ACW	44 28 59.0 122 34 55.0	0.170 754	0.3 1245	19.5 Educational Media Foundati	61.6	63.8
201C3	KGRI Lebanon	CP DCX OR		73.9 254.6	83.77 BPED20120726AEZ	44 28 59.0 122 34 55.0	0.170 761	0.3 1252	19.5 Educational Media Foundati	61.6	63.7
203A	KAIK Tillamook	LIC _VX OR		349.1 168.9	134.45 BMLLED20060428ACI	45 27 59.0 123 55 11.0	0.060 389	56.5 463	17.3 Educational Media Foundati	65.1	65.7
202C2	KBVM Portland	LIC _CX OR		25.9 206.5	153.38 BLED20060221ADR	45 30 58.0 122 43 59.0	3.500 437	74.2 528	49.1 Catholic Broadcasting Nort	65.3	82.1
06+T	K06NI The Dalles	LI _N OR		49.9 231.6	252.06 BLTVL20050309ACR	45 42 43.0 121 06 58.0	0.250 807	39.3 977	6.6 Michael Mattson	142.5R	109.6M
06 D	K06NS-D Chiloquin	LI _N OR		145.8 327.1	269.15 BLDTV20090126ABJ	42 15 45.0 121 45 22.0	0.193 406	39.3 1669	6.6 California Oregon Broadcas	142.5R	126.7M

CH CITY	CALL	TYPE STATE	ANT STATE	AZI <--	DI ST FI LE #	LAT LNG	PWR(kW) HAAT(M)	INT(km) COR(M)	PRO(km) LI CENSEE	Page # 2 *IN* (Overl ap in km)	*OUT*
06 T	K06KA Fort Jones, Etc.	CP	D_N CA	169.7 350.2	317.30 BDFCDTV20111026AEG	41 28 00.0 122 54 50.0	0.021 283	0.2 1131	9.5 Ktvl Li censee, LI c	142.5R	174.8M
06 D	1344264 Yaki ma	AP	D_N WA	39.5 221.6	356.43 BNPDVL20091123AJK	46 42 41.0 120 37 20.0	0.300 327	0.2 719	9.5 Luna Foods, Inc.	142.5R	213.9M
06 D	1355965 Pasco	AP	D_N WA	57.0 240.1	403.98 BNPDVL20100218ADI	46 10 17.0 119 12 08.0	0.300 176	39.3 300	6.6 Luna Foods, Inc.	142.5R	261.5M
06 D	KNNN-LD Reddi ng	CPM	D_N CA	167.3 348.0	412.22 BMPDVL20110826ABQ	40 39 14.0 122 31 15.0	3.000 810	0.2 1015	9.5 Venture Technologi es Group	142.5R	269.7M
06 D	1331181 El l ensburg	AP	D_N WA	35.5 217.7	415.14 BNPDVL20090826ACK	47 16 27.0 120 24 18.0	0.300 1421	0.2 2066	9.5 Denver Di gi tal Tele vi si on,	142.5R	272.6M

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= , 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.

