

KATU
Channel 24 - Portland Oregon
ERP = 42900.00 WATTS

APPENDIX A

Maximum ERP 42.9 kW

Polarization ----- 1.17 Circular
 Antenna Height Above Ground -- 274.1 meters 899.3 feet
 FCC Uncontrolled RFR Limit ---- 355.33 $\mu\text{W}/\text{cm}^2$

Maximum Computed Power Density 0.077 $\mu\text{W}/\text{cm}^2$
 0.02% of limit

Angle Below Horizontal (degrees)	<Point X> Horiz Distance from tower to 2 m AGL (meters)	Slant Distance from antenna to Point X (meters)	Vertical Pattern (REL. FIELD)	KATU ERP (kW)	KATU Calculated Power Density $\mu\text{W}/\text{cm}^2$	Percent Limit	Limit Exceeded?
1			1.000	42.9000			
5	3110.1	3122.0	0.318	4.3382	0.017	0.00%	No
10	1543.2	1567.0	0.170	1.2398	0.020	0.01%	No
15	1015.5	1051.3	0.165	1.1680	0.041	0.01%	No
20	747.6	795.6	0.039	0.0653	0.004	0.00%	No
25	583.5	643.8	0.074	0.2349	0.022	0.01%	No
30	471.3	544.2	0.022	0.0208	0.003	0.00%	No
35	388.6	474.4	0.056	0.1345	0.023	0.01%	No
40	324.3	423.3	0.064	0.1757	0.038	0.01%	No
45	272.1	384.8	0.043	0.0793	0.021	0.01%	No
50	228.3	355.2	0.076	0.2478	0.077	0.02%	No
55	190.5	332.2	0.019	0.0155	0.005	0.00%	No
60	157.1	314.2	0.014	0.0084	0.003	0.00%	No
65	126.9	300.2	0.014	0.0084	0.004	0.00%	No
70	99.0	289.6	0.038	0.0619	0.029	0.01%	No
75	72.9	281.7	0.025	0.0268	0.013	0.00%	No
80	48.0	276.3	0.008	0.0027	0.001	0.00%	No
85	23.8	273.1	0.002	0.0002	0.000	0.00%	No
90	0.0	272.1	0.000	0.0000	0.000	0.00%	No

