

**KMTR - Main Facility**  
**Channel 17 - Eugene, Oregon**  
**ERP = 300000.00 WATTS**

**APPENDIX A**

**Maximum ERP 300 kW**

Polarization ----- 2 Circular  
 Antenna Height Above Ground -- 198.2 meters 650.3 feet  
 FCC Uncontrolled RFR Limit ---- 327.33  $\mu\text{W}/\text{cm}^2$

Maximum Computed Power Density 3.427  $\mu\text{W}/\text{cm}^2$   
 1.05% 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)	KMTR - Main Facility ERP (kW)	KMTR - Main Facility Calculated Power Density $\mu\text{W}/\text{cm}^2$	Percent Limit	Limit Exceeded?
0			1.000	300.0000			
5	2242.6	2251.1	0.170	8.6700	0.114	0.03%	No
10	1112.7	1129.9	0.085	2.1675	0.113	0.03%	No
15	732.2	758.1	0.028	0.2352	0.027	0.01%	No
20	539.1	573.7	0.038	0.4332	0.088	0.03%	No
25	420.8	464.2	0.009	0.0243	0.008	0.00%	No
30	339.8	392.4	0.023	0.1587	0.069	0.02%	No
35	280.2	342.1	0.013	0.0507	0.029	0.01%	No
40	233.8	305.2	0.015	0.0675	0.048	0.01%	No
45	196.2	277.5	0.040	0.4800	0.416	0.13%	No
50	164.6	256.1	0.081	1.9683	2.004	0.61%	No
55	137.4	239.5	0.000	0.0000	0.000	0.00%	No
60	113.3	226.6	0.037	0.4107	0.535	0.16%	No
65	91.5	216.5	0.039	0.4563	0.650	0.20%	No
70	71.4	208.8	0.032	0.3072	0.471	0.14%	No
75	52.6	203.1	0.084	2.1168	3.427	1.05%	No
80	34.6	199.2	0.068	1.3872	2.335	0.71%	No
85	17.2	196.9	0.022	0.1452	0.250	0.08%	No
90	0.0	196.2	0.000	0.0000	0.000	0.00%	No

