

KCBY-TV
Channel 34 - Coos Bay, Oregon
ERP = 450000.00 WATTS

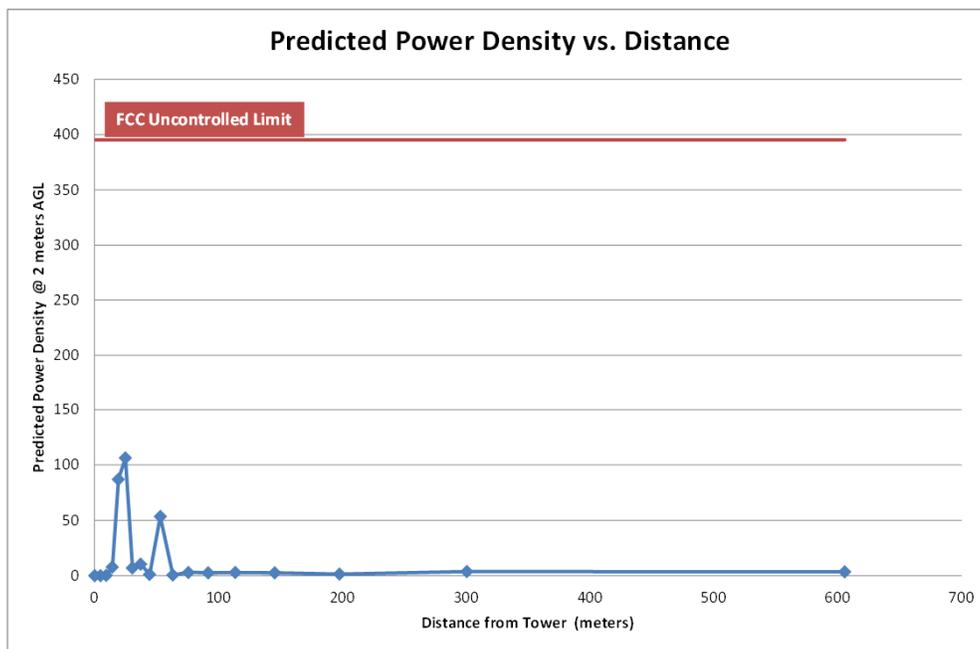
APPENDIX A

Maximum ERP 450 kW

Polarization ----- 2 Circular meters 180.4 feet
 Antenna Height Above Ground -- 55
 FCC Uncontrolled RFR Limit ---- 395.33 $\mu\text{W}/\text{cm}^2$

Maximum Computed Power Density 106.359 $\mu\text{W}/\text{cm}^2$
 26.90% 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)	KCBY-TV ERP (kW)	KCBY-TV Calculated Power Density $\mu\text{W}/\text{cm}^2$	Percent Limit	Limit Exceeded?
0			1.000	450.0000			
5	605.8	608.1	0.201	18.1805	3.284	0.83%	No
10	300.6	305.2	0.105	4.9613	3.558	0.90%	No
15	197.8	204.8	0.045	0.9113	1.452	0.37%	No
20	145.6	155.0	0.045	0.9113	2.535	0.64%	No
25	113.7	125.4	0.039	0.6845	2.907	0.74%	No
30	91.8	106.0	0.031	0.4325	2.571	0.65%	No
35	75.7	92.4	0.029	0.3785	2.961	0.75%	No
40	63.2	82.5	0.010	0.0450	0.442	0.11%	No
45	53.0	75.0	0.100	4.5000	53.507	13.53%	No
50	44.5	69.2	0.013	0.0761	1.061	0.27%	No
55	37.1	64.7	0.038	0.6498	10.369	2.62%	No
60	30.6	61.2	0.029	0.3785	6.750	1.71%	No
65	24.7	58.5	0.110	5.4450	106.359	26.90%	No
70	19.3	56.4	0.096	4.1472	87.087	22.03%	No
75	14.2	54.9	0.028	0.3528	7.828	1.98%	No
80	9.3	53.8	0.004	0.0072	0.166	0.04%	No
85	4.6	53.2	0.001	0.0005	0.011	0.00%	No
90	0.0	53.0	0.000	0.0000	0.000	0.00%	No





RADIO FREQUENCY IMPACT, SAFETY & STATEMENT OF COMPLIANCE

The licensee of KCBY-TV is committed to the protection of station personnel and/or tower contractors working in the vicinity of the KCBY-TV antenna and will reduce power or cease operation, when necessary, to ensure protection to personnel.

As shown in Appendix A the KCBY-TV channel 34 facility as proposed herein will operate with a maximum ERP of 450 kW from an elliptically polarized directional transmitting antenna with a centerline height of 55 meters above ground level (AGL). Considering the elevation pattern provided elsewhere in this submission, the vertical plane relative field factor is less than 0.150 at all depression angles greater than 7 degrees. The proposed KCBY-TV channel 34 facility is predicted to produce a worst-case power density at two meters above ground level, at 24.7 meters from the tower base, of $106.36 \mu\text{W}/\text{cm}^2$, which is 26.9% of the FCC guideline value of $395.33 \mu\text{W}/\text{cm}^2$ for an “uncontrolled” environment, and 5.38% of the FCC’s guideline value for “controlled” environments. There is one reserved band FM station, KZBY, that is located within the relevant distance of 415 meters from the KCBY-TV site that contributes an additional 15.3% to the “uncontrolled” and 3.06% to the “controlled” environment. The total power density from these facilities is only 42.4% of the “uncontrolled” guideline and 8.48% of the “controlled” environment” guideline. The Applicant will coordinate with the other site users to reduce power or cease operation during maintenance of the transmission systems to avoid potentially harmful exposure to personnel. In light of the above, the proposed facility should be categorically excluded from RF environmental processing under Section 1.1307(b) of the FCC’s Rules.