



## **RADIO FREQUENCY IMPACT, SAFETY & STATEMENT OF COMPLIANCE**

The permittee of NEW(TV) - Ch 15 - Syracuse NY is committed to the protection of station personnel and/or tower contractors working in the vicinity of NEW's antenna and will reduce power or cease operation, when necessary, to ensure protection to personnel.

The proposed NEW channel 15 facility, as proposed herein, will operate with a maximum ERP of 475 kW from an elliptically polarized non-directional transmitting antenna with a centerline height of 254.6 meters above ground level (AGL). Considering the antenna's elevation pattern provided elsewhere in this submission, the vertical plane relative field factor is less than 0.15 at all depression angles greater than 9 degrees. The proposed NEW channel 15 facility is predicted to produce a worst-case power density at two meters above ground level, at 145.8 meters from the tower base, of  $1.088 \mu\text{W}/\text{cm}^2$ , which is 0.34% of the FCC guideline value of  $319.33 \mu\text{W}/\text{cm}^2$  for an "uncontrolled" environment, and 0.068% of the FCC's guideline value for "controlled" environments. Therefore, pursuant to Section 1.1307(b)(3) of the FCC Rules, because the proposed facility would not exceed 5% of the uncontrolled and controlled exposure limits, the proposal's power density contribution is considered insignificant. Further, the Applicant will continue to cooperate/coordinate with other site users and reduce power and/or cease operation during times of service or maintenance of the transmission systems as necessary 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 Commission's Rules.

# NEW

Channel 15 - Syracuse, New York

ERP = 475000.00 WATTS

## APPENDIX A

Maximum ERP 475 kW

Polarization ----- 2 Circular  
Antenna Height Above Ground -- 254.6 meters 835.3 feet  
FCC Uncontrolled RFR Limit ---- 319.33  $\mu\text{W}/\text{cm}^2$

Maximum Computed Power Density 1.088  $\mu\text{W}/\text{cm}^2$   
0.34% 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)	NEW ERP (kW)	NEW Calculated Power Density $\mu\text{W}/\text{cm}^2$	Percent Limit	Limit Exceeded?
0			0.978	454.3299			
5	2887.2	2898.3	0.135	8.6569	0.069	0.02%	No
10	1432.6	1454.7	0.037	0.6503	0.021	0.01%	No
15	942.7	976.0	0.027	0.3463	0.024	0.01%	No
20	694.0	738.6	0.019	0.1715	0.021	0.01%	No
25	541.7	597.7	0.026	0.3211	0.060	0.02%	No
30	437.5	505.2	0.061	1.7675	0.463	0.14%	No
35	360.8	440.4	0.079	2.9645	1.021	0.32%	No
40	301.0	393.0	0.030	0.4275	0.185	0.06%	No
45	252.6	357.2	0.065	2.0069	1.051	0.33%	No
50	212.0	329.7	0.008	0.0304	0.019	0.01%	No
55	176.9	308.4	0.045	0.9619	0.676	0.21%	No
60	145.8	291.7	0.054	1.3851	1.088	0.34%	No
65	117.8	278.7	0.046	1.0051	0.864	0.27%	No
70	91.9	268.8	0.029	0.3995	0.369	0.12%	No
75	67.7	261.5	0.030	0.4275	0.418	0.13%	No
80	44.5	256.5	0.027	0.3463	0.352	0.11%	No
85	22.1	253.6	0.019	0.1715	0.178	0.06%	No
90	0.0	252.6	0.000	0.0000	0.000	0.00%	No

