

RF HAZARD STATEMENT

TELEVISION STATION WPXR-TV
ROANOKE, VIRGINIA
CHANNEL 27 895 KW (MAX-DA) 622 M HAAT

With respect to the potential for human exposure to radio frequency (RF) energy for the proposed WPXR-TV facility, calculations prepared in accordance with FCC Bulletin OET-65 (Edition 97-01) indicate that the proposal will not result in human exposure to RF energy at ground level in excess of FCC standards.* Power density calculations were conducted at 2-m above ground† based on the following conservative assumptions, with the following results:

Radial Distance from Base of Tower Structure (m)	Angle from Horizontal (deg)	Antenna Downward Relative Field Factor	Distance From Transmitting Antenna (m)	Calculated Power Density (uW/cm ²)	Percent of General Population / Uncontrolled MPE (%)
0	90.00	0.001	53.00	0.011	0.0
5	84.61	0.019	53.24	3.808	1.0
10	79.32	0.026	53.94	6.947	1.9
15	74.20	0.015	55.08	2.217	0.6
20	69.33	0.009	56.65	0.755	0.2
25	64.75	0.008	58.60	0.557	0.2
30	60.49	0.018	60.90	2.611	0.7
35	56.56	0.025	63.51	4.631	1.3
40	52.96	0.012	66.40	0.976	0.3
45	49.67	0.036	69.53	8.014	2.2
50	46.67	0.018	72.86	1.824	0.5
55	43.94	0.042	76.38	9.039	2.5
60	41.46	0.023	80.06	2.467	0.7
65	39.19	0.040	83.87	6.800	1.9
70	37.13	0.025	87.80	2.424	0.7
75	35.25	0.043	91.84	6.553	1.8
80	33.52	0.028	95.96	2.545	0.7
85	31.94	0.052	100.17	8.056	2.2

* See Section 1.1310 of the FCC Rules and Regulations.

† The radiation center height above ground is 55 m.

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90	30.49	0.066	104.45	11.936	3.2
95	29.16	0.055	108.78	7.641	2.1
100	27.92	0.007	113.18	0.114	0.0
200	14.84	0.068	206.90	3.229	0.9
300	10.02	0.119	304.65	4.561	1.2
400	7.55	0.143	403.50	3.755	1.0
500	6.05	0.222	502.80	5.828	1.6

As indicated above, the exposure to RF energy at 2-m above ground level will not exceed 3.2% of the FCC limit for general population / uncontrolled exposure. Therefore, the proposal complies with the FCC limits for human exposure to RF energy and it is categorically excluded from environmental processing.

The licensee, in coordination with the other users of the transmission facility, shall reduce power or cease operation as necessary to protect persons having access to the tower or antenna from RF energy in excess of the FCC guidelines.