

TECHNICAL STATEMENT
APPLICATION FOR CONSTRUCTION PERMIT
LOW POWER TV STATION WMNS-LP
CHARLOTTE AMALIE, VIRGIN ISLANDS
CHANNEL 22 5 KW 476 M AMSL

This Technical Statement was prepared in support of an application for construction permit for Low Power TV station WMNS-LP, Charlotte Amalie, VI. WMNS-LP is licensed for operation on Channel 22 with a non-directional effective radiated power (ERP) of 10 kW* and an antenna height of 460 m above mean sea level (See FCC File No. BLTTL-20041015ABV). The purpose of the instant application is to authorize a digital flash-cut facility on Channel 22. The proposed transmitting antenna will be relocated to a new taller tower being constructed adjacent to the present tower. A non-directional ERP of 5 kW is proposed with an antenna height of 476 m AMSL. This application is classified as a minor change.

Environmental Considerations

With respect to the potential for human exposure to radio frequency (RF) radiation, calculations prepared in accordance with FCC Bulletin OET-65 (Edition 97-01) indicate that the proposal will not result in human exposure to RF radiation 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:

* The maximum ERP in the main lobe is 20 kW.

Call Sign	Channel	Average ERP (kW)	Antenna Height above Ground (m)	Relative Field Factor [†]	FCC Limit [‡] (mW/cm ²)	Percentage of Limit
WMNS-LP	22	5.0	30	0.10	0.3353	0.6%

As indicated above, the exposure to RF radiation at 2-m above ground level will not exceed 0.6% of the FCC limit for general population / uncontrolled exposure. Therefore, the proposal complies with the FCC limits for human exposure to RF radiation and it is categorically excluded from environmental processing.



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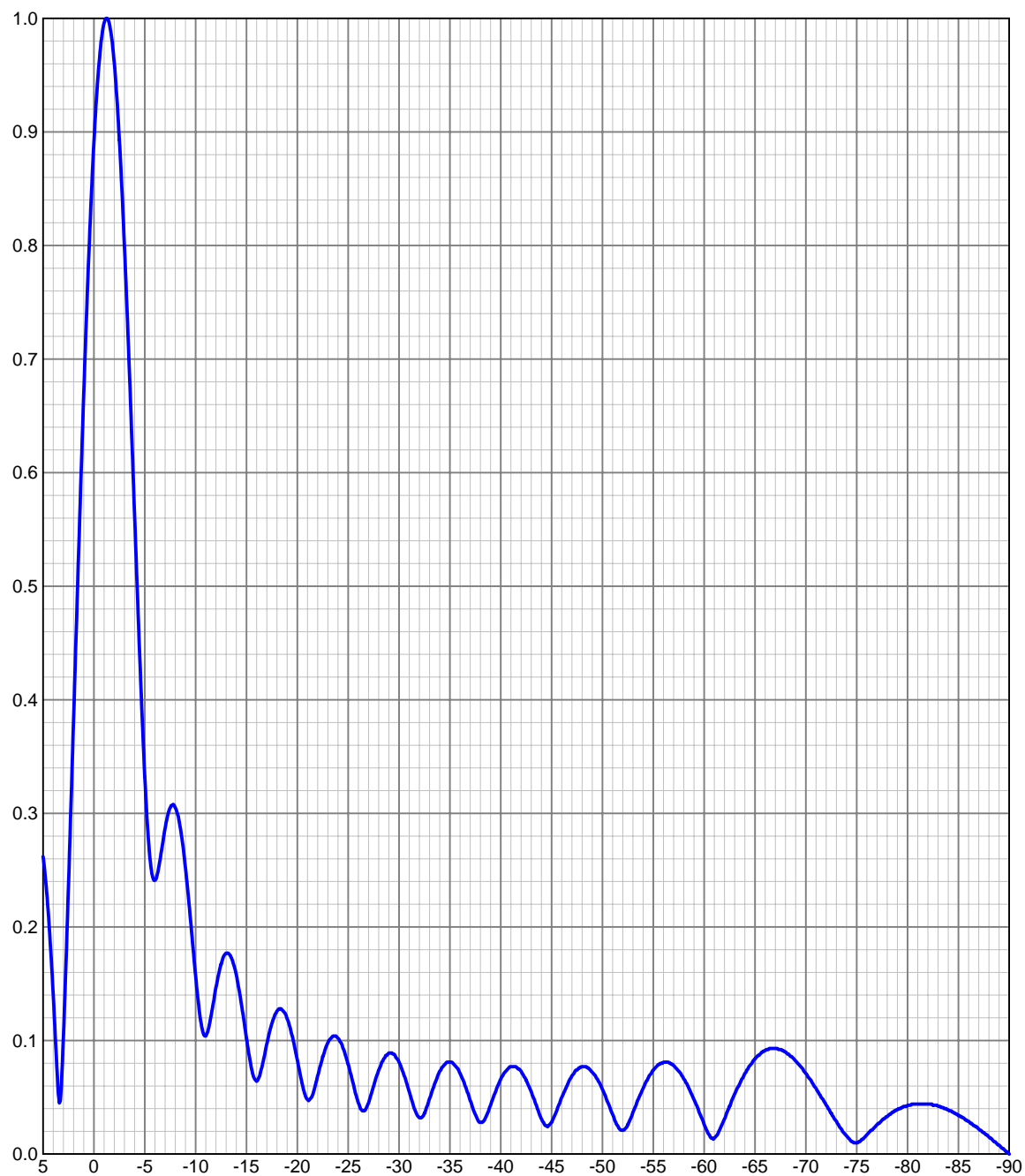
[†] This is a conservative estimate of the relative field factor in the downward direction. See Appendix.

[‡] for general population/uncontrolled environments

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Transmitting Antenna Pattern Data

(two sheets follow)

ELEVATION PATTERN**Type:****AL 12****Channel:****22****Directivity:****Numeric****dBd****Location:****Main Lobe:****12.00****10.79****Beam Tilt:****-1.25****Horizontal:****9.53****9.79****Polarization:****Horizontal****Relative Field**

TABULATED DATA FOR ELEVATION PATTERN

Type: AL12

PolarizationHorizontal

ANGLEFIELD	dB	ANGLEFIELD	dB	ANGLEFIELD	dB	ANGLEFIELD	dB	ANGLEFIELD	dB
5.00	0.262	-11.63	-6.75	0.273	-11.28	-27.00	0.045	-26.94	-50.50
4.75	0.241	-12.36	-7.00	0.287	-10.84	-27.50	0.060	-24.44	-51.00
4.50	0.214	-13.39	-7.25	0.298	-10.52	-28.00	0.074	-22.62	-51.50
4.25	0.179	-14.92	-7.50	0.305	-10.31	-28.50	0.084	-21.51	-52.00
4.00	0.140	-17.08	-7.75	0.307	-10.24	-29.00	0.089	-21.01	-52.50
3.75	0.095	-20.45	-8.00	0.305	-10.31	-29.50	0.088	-21.11	-53.00
3.50	0.053	-25.51	-8.25	0.298	-10.50	-30.00	0.081	-21.83	-53.50
3.25	0.054	-25.35	-8.50	0.287	-10.84	-30.50	0.069	-23.22	-54.00
3.00	0.103	-19.74	-8.75	0.272	-11.32	-31.00	0.055	-25.19	-54.50
2.75	0.167	-15.52	-9.00	0.252	-11.97	-31.50	0.040	-27.96	-55.00
2.50	0.237	-12.51	-9.25	0.230	-12.77	-32.00	0.032	-29.90	-55.50
2.25	0.309	-10.19	-9.50	0.206	-13.72	-32.50	0.036	-28.87	-56.00
2.00	0.383	-8.34	-9.75	0.181	-14.85	-33.00	0.049	-26.20	-56.50
1.75	0.458	-6.79	-10.00	0.157	-16.08	-33.50	0.062	-24.15	-57.00
1.50	0.531	-5.50	-10.50	0.117	-18.64	-34.00	0.073	-22.73	-57.50
1.25	0.602	-4.41	-11.00	0.104	-19.66	-34.50	0.079	-22.05	-58.00
1.00	0.670	-3.48	-11.50	0.121	-18.34	-35.00	0.081	-21.83	-58.50
0.75	0.734	-2.69	-12.00	0.147	-16.65	-35.50	0.078	-22.16	-59.00
0.50	0.792	-2.03	-12.50	0.167	-15.55	-36.00	0.071	-22.97	-59.50
0.25	0.845	-1.46	-13.00	0.177	-15.04	-36.50	0.060	-24.44	-60.00
0.00	0.891	-1.00	-13.50	0.173	-15.24	-37.00	0.047	-26.56	-60.50
-0.25	0.930	-0.63	-14.00	0.158	-16.03	-37.50	0.035	-29.12	-61.00
-0.50	0.960	-0.35	-14.50	0.132	-17.59	-38.00	0.028	-31.06	-61.50
-0.75	0.982	-0.15	-15.00	0.102	-19.83	-38.50	0.032	-29.90	-62.00
-1.00	0.996	-0.03	-15.50	0.075	-22.50	-39.00	0.043	-27.33	-62.50
-1.25	1.000	0.00	-16.00	0.064	-23.88	-39.50	0.055	-25.19	-63.00
-1.50	0.996	-0.03	-16.50	0.076	-22.38	-40.00	0.066	-23.61	-63.50
-1.75	0.982	-0.15	-17.00	0.097	-20.26	-40.50	0.073	-22.73	-64.00
-2.00	0.961	-0.35	-17.50	0.115	-18.79	-41.00	0.077	-22.27	-64.50
-2.25	0.931	-0.63	-18.00	0.126	-17.99	-41.50	0.077	-22.27	-65.00
-2.50	0.893	-0.98	-18.50	0.127	-17.92	-42.00	0.073	-22.73	-65.50
-2.75	0.849	-1.42	-19.00	0.119	-18.49	-42.50	0.065	-23.74	-66.00
-3.00	0.799	-1.95	-19.50	0.104	-19.66	-43.00	0.055	-25.19	-66.50
-3.25	0.744	-2.56	-20.00	0.083	-21.62	-43.50	0.043	-27.33	-67.00
-3.50	0.686	-3.27	-20.50	0.061	-24.29	-44.00	0.031	-30.17	-67.50
-3.75	0.625	-4.09	-21.00	0.048	-26.38	-44.50	0.025	-32.04	-68.00
-4.00	0.562	-5.01	-21.50	0.052	-25.68	-45.00	0.028	-31.06	-68.50
-4.25	0.500	-6.03	-22.00	0.069	-23.22	-45.50	0.038	-28.40	-69.00
-4.50	0.439	-7.15	-22.50	0.086	-21.31	-46.00	0.050	-26.02	-69.50
-4.75	0.383	-8.34	-23.00	0.098	-20.18	-46.50	0.060	-24.44	-70.00
-5.00	0.332	-9.58	-23.50	0.104	-19.66	-47.00	0.069	-23.22	-70.50
-5.25	0.291	-10.72	-24.00	0.102	-19.83	-47.50	0.074	-22.62	-71.00
-5.50	0.261	-11.67	-24.50	0.093	-20.63	-48.00	0.077	-22.27	-71.50
-5.75	0.245	-12.22	-25.00	0.079	-22.05	-48.50	0.076	-22.38	-72.00
-6.00	0.241	-12.36	-25.50	0.062	-24.15	-49.00	0.072	-22.85	-72.50
-6.25	0.247	-12.15	-26.00	0.045	-26.94	-49.50	0.066	-23.61	-73.00
-6.50	0.259	-11.73	-26.50	0.038	-28.40	-50.00	0.057	-24.88	-73.50