

Multi-Source Study

214A Napeague, NY

Stations Study at 41 01 56 N, 71 58 30 W, Search Distance = 1 km

Call	Service	City	State	Chan.	Power	Coordinates	Dist-km	Azimuth	File	Number
AM ----- None Found -----										
FM -----										
WELJ	M	Montauk	NY	284A	0006.000kW	410157N 715831W	000.0	322.8	BLH19930226KB	FM
W230BH	X	Montauk	NY	230D	0000.027kW	410156N 715832W	000.0	269.9	BPFT20081125AAE	FM
WEER.C	M	Easthampton,	NY	214A	0003.800kW	410156N 715832W	000.0	269.9	BMPED20100201ACN	FM
W230BH	X	Montauk	NY	230D	0000.027kW	410156N 715832W	000.0	269.9	BLFT20080616AEH	FM
WEGB.C	M	Napeague	NY	214B1	0006.250kW	410156N 715832W	000.0	269.9	BNPED20071015AHI	FM
WPKM	M	Montauk	NY	204A	0001.700kW	410155N 715833W	000.1	246.2	BLED20050318ABX	FM
TV ----- None Found -----										

We separately compute the radiation hazard as if all the facilities were on the same tower.

WELJ, 284A, once licensed as WMOS, from its most recent license document BRH 20060124AMB shows a 4 bay half wave Shively 6813 running 6 kW circularly polarized at 39 meters AGL: FMModel gives 0.7% and 3.5% as the resultant percentages of occupational and general limit values.

Translator W230BH, at 27 Watts ERP, is categorically excluded from processing.

WEER, 214A, will time share with the proposed facility and therefore will not be operational at the same time as the proposed facility. It therefore need not be considered.

The proposed facility, WEGB, is modified from the above data. It is 4.6 kW circular at 26 meters AGL with a log periodic antenna. FMModel gives 7.2% and 36 % as the resultant percentages of occupational and general limit values.

WPKM, 204A, license application BLED 20050318ABX shows their facility has 1.7 kW ERP vertically, but only 0.005 kW ERP horizontally at 36 meters AGL using a Shively 6513-2 two bay full wave spaced vertical dipole. FMModel gives 0.8% and 3.9% as the resultant percentages of occupational and general limit values respectively.

Combining these figures:

Facility	% of Occupational Limit	% of General Limit
WELJ	0.7	3.5
WEER	-	-
WEGB (Prop)	7.2	36.0
WPKM	0.8	3.9
Totals	8.7	43.4

The facility is thus well within the radiation hazard guidelines, and is safe for ground based personnel.