

WPBS

CONYERS, GEORGIA

DERIVATION OF CRITICAL HOURS RADIATION LIMIT TOWARD WHO

To WHO 0.1 mV/m Ground Wave Contour <u>Azmuth Miles</u>	From FCC §73.190 Figures 10 & 11 and FCC §73.188	Rad. Lim. mV/m <u>kM</u>
304.5 605.8	1000 kHz 470 mV/m x 0.933 = 438.5 1600 kHz 165 mV/m x 0.067 = 11.1 449.6 x 1.609 = 723.5	
309.0 554.0	1000 kHz 451 mV/m x 0.933 = 420.8 1600 kHz 151 mV/m x 0.067 = 10.1 430.9 x 1.609 = 693.5	
315.0 531.3	1000 kHz 450 mV/m x 0.933 = 420.0 1600 kHz 153 mV/m x 0.067 = 10.3 430.3 x 1.609 = 692.5	
320.5 522.6	1000 kHz 460 mV/m x 0.933 = 429.2 1600 kHz 160 mV/m x 0.067 = 10.7 439.9 x 1.609 = 707.9	
325.0 526.0	1000 kHz 490 mV/m x 0.933 = 457.2 1600 kHz 163 mV/m x 0.067 = 10.9 468.1 x 1.609 = 753.0	

The minimum field from the computations is 692.5 mV/m at 315 degrees and 531.3 kilometers. The proposed Critical Hours power is 5.5 kilowatts which is 691.8 mV/m.