

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	$1000 \text{ kHz } 470 \text{ mV/m} \times 0.933 = 438.5$ $1600 \text{ kHz } 165 \text{ mV/m} \times 0.067 = 11.1$ $449.6 \times 1.609 = 723.5$	
309.0 554.0	$1000 \text{ kHz } 451 \text{ mV/m} \times 0.933 = 420.8$ $1600 \text{ kHz } 151 \text{ mV/m} \times 0.067 = 10.1$ $430.9 \times 1.609 = 693.5$	
315.0 531.3	$1000 \text{ kHz } 450 \text{ mV/m} \times 0.933 = 420.0$ $1600 \text{ kHz } 153 \text{ mV/m} \times 0.067 = 10.3$ $430.3 \times 1.609 = 692.5$	
320.5 522.6	$1000 \text{ kHz } 460 \text{ mV/m} \times 0.933 = 429.2$ $1600 \text{ kHz } 160 \text{ mV/m} \times 0.067 = 10.7$ $439.9 \times 1.609 = 707.9$	
325.0 526.0	$1000 \text{ kHz } 490 \text{ mV/m} \times 0.933 = 457.2$ $1600 \text{ kHz } 163 \text{ mV/m} \times 0.067 = 10.9$ $468.1 \times 1.609 = 753.0$	

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.