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## To Whom it May Concern RedMAX 4C SC-1000

### **RF Exposure Safe Distance (worst case):**

Equation from page 19 of OET Bulletin 65, Edition 97-01,  
Health Canada - Safety Code 6 (RSS 102) and  
EMF Exposure Directive (99/519/EC)

$$S = \frac{PG}{4\pi R^2} \text{ and } R = \sqrt{\frac{EIRP}{4\pi S}}$$

Where:

- S = power density
- P = power input to the antenna
- G = power gain of the antenna in the direction of interest relative to an isotropic radiator
- EIRP= equivalent (effective) isotropic radiated power
- R = distance to the center of radiation of the antenna

Maximum output power at antenna input terminals (calculated aggregate): **41.25** (dBm) / **13.213** (W)

Antenna gain (typical): **17** (dBi)

EIRP (aggregate): **41.25 + 17 = 58.21** (dBm)

Frequency: **2500-2700** (MHz)

MPE limit for uncontrolled exposure at operating frequency: **1** (mW/cm<sup>2</sup>)

Which falls under Exemption from RF Calculation. As a result, the following recommended min. RF safe exposure distance for this RF device is: **230 cm**

You can contact the undersigned if you have any questions.

Sincerely Yours,

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