



## Maximum Permissible Exposure (MPE) Requirement

Applicant: Southfork Solutions, Inc.  
Model No.: Gen3 RDR

Job Number / NEX #255276

This document was prepared in by Nemko-CCL on behalf of the applicant using data collected during testing and information provided by the applicant. The maximum power density requirements for the General Public (Uncontrolled Environment) listed in FCC Part 1.1310 were used. The power density is calculated using the following equation.

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$$\begin{aligned} P_d &= \text{power density in watts} \\ P_t &= \text{transmit power in milliwatts} \\ G &= \text{numeric antenna gain} \\ r &= \text{distance between body and transmitter in centimeters} \\ &= \text{EIRP} \end{aligned}$$

The calculated power density of the EUT listed in this application is shown below.

|                                      |          |                         |      |
|--------------------------------------|----------|-------------------------|------|
| Max Transmit Power ERP (mW):         | 5.96E-01 | Max Antenna Gain (dBi): | 3.3  |
| Operating Frequency (MHz):           | 927.5    | (Numeric Antenna Gain): | 2.14 |
| Min Operating Distance (cm):         | 20       | Duty Cycle (%):         | 100  |
| Power Density (mW/cm <sup>2</sup> ): |          | 2.53E-04                |      |
| Limit (mW/cm <sup>2</sup> ):         |          | 6.18E-01                |      |