Excellence in Compliance Testing

# Certification Exhibit

**FCC ID: P2SNTGECR900DL**
**IC: 4171B-ECR900DL**

**FCC Rule Part: 15.247, 15.249**
**IC Radio Standards Specification: RSS-210**

**ACS Report Number: 08-0157 - 15C**

Manufacturer: Neptune Technology Group, Inc.
Model: E-Coder)R900i DL

# RF Exposure

**General Information:**

Applicant: Neptune Technology Group, Inc.
ACS Project: 08-0157
Device Category: Mobile
Environment: General Population/Uncontrolled Exposure

**Technical Information:**

Antenna Type(s):

E-coder)R900i Slip On Pit Antenna (Neptune Technology Group, Inc. model number 12690-001)
E-coder)R900i Lid Mount Pit Antenna (Neptune Technology Group, Inc. model number 12527-200)
E-coder)R900i Wire Inside Antenna (Neptune Technology Group, Inc. model number 12641-001)

Antenna Gain(s): 0 dBi
Maximum Transmitter Conducted Power: 16.86 dBm
Maximum System EIRP: 16.86 dBm
Exposure Conditions: Greater than 20 centimeters

**MPE Calculation (Frequency Hopping Mode under 15.247 Only)**

The Power Density ($mW/cm^2$) is calculated as follows:

$$S = \frac{PG}{4\pi R^2}$$

Where:
S = power density (in appropriate units, e.g. mW/cm2)
P = power input to the antenna (in appropriate units, e.g., mW)
G = power gain of the antenna in the direction of interest relative to an isotropic radiator
R = distance to the center of radiation of the antenna (appropriate units, e.g., cm)

| MPE Calculator for Mobile Equipment<br>Limits for General Population/Uncontrolled Exposure* | | | | | | | |
|---|---|---|---|---|---|---|---|
| **Transmit Frequency (MHz)** | **Radio Power (dBm)** | **Power Density Limit (mW/Cm2)** | **Radio Power (mW)** | **Antenna Gain (dBi)** | **Antenna Gain (mW eq.)** | **Distance (cm)** | **Power Density (mW/cm^2)** |
| 919 | 16.86 | 0.61 | 48.53 | 0 | 1.000 | 20 | 0.010 |

**Installation Guidelines**

The installation manual should contain text similar to the following advising how to install the equipment to maintain compliance with the FCC RF exposure requirements:

**RF Exposure**

In accordance with FCC requirements of human exposure to radio frequency fields, the radiating element shall be installed such that a minimum separation distance of 20 centimeters will be maintained.

**Conclusion**

This device complies with the MPE requirements by providing adequate separation between the device, any radiating structure and the general population.