

Certification Exhibit

**FCC ID: R7PNG0R1S1
IC: 5294A-NG0R1S1**

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

ACS Report Number: 08-300 - 15C

Manufacturer: Cellnet Technology Inc.
Model: Utilinet, Modular SCADA/DA

RF Exposure

General Information:

Applicant: Cellnet Technology, Inc.
 ACS Project: 08-0300
 Device Category: Mobile
 Environment: General Population/Uncontrolled Exposure

Technical Information External Antenna

Antenna Type: Whip
 Antenna Gain: 5dBi
 Transmitter Conducted Power: 21.23dBm
 Maximum System EIRP: 26.23dBm

Technical Information Internal Antenna

Antenna Type: F Antenna
 Antenna Gain: 0dBi
 Transmitter Conducted Power: 21.23dBm
 Maximum System EIRP: 21.23dBm

MPE Calculation

The Power Density (mW/cm²) 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 calculations were performed using the highest gain antenna.

MPE Calculator for Mobile Equipment 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)
915	21.23	0.61	132.74	5	3.162	20	0.084

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.