FCC Part 15.247 Certification
Test Report

FCC ID: R7PIWRS3

FCC Rule Part: 15.247

ACS Report Number: 04-0264-15C

Manufacturer: Cellnet Technology, Inc.
Equipment Type: Utility Meter Usage Data Transceiver
Model: IWR with Utilinet DC Radio

RF Exposure Information

General Information:

Applicant: Cellnet
ACS Project: 04-0203
FCC ID: R7PWGRS3
Device Category: Mobile
Environment: General Population/Uncontrolled Exposure

Technical Information:

Antenna Type: Whip
Antenna Gain: 5dBi
Transmitter Conducted Power: 29.75dBm
Maximum System EIRP: 34.75dBm
Operating Configuration: Fixed mounted
Exposure Conditions: Greater than 20 centimeters

MPE Calculation

The minimum separation distance is calculated as follows:

$$E(V/m) = \frac{\sqrt{30xPxG}}{d} \qquad \text{Power Density: } P_d = (mW/cm^2) = \frac{E^2}{3770}$$

MPE Distance

MPE Calculator for Mobile Equipment Limits for General Population/Uncontrolled Exposure				
Transmit Freq. (MHz)	**Radio Power (dBm)**	**Radio Power (W)**	**Antenna Gain (dBi)**	**MPE Distance (cm)**
903	29.75	0.94406	5	19.8651

Installation Guidelines
The installation manual contains the following text advising how to install the equipment to maintain compliance with the FCC RF exposure requirements:

"RF Exposure (Intentional Radiators Only)
In accordance with FCC requirements of human exposure to radiofrequency fields, the radiating element shall be installed such that a minimum separation distance of 20cm is maintained from the general population."

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