Transmitter Certification
Test Report

FCC ID: SDBAMDS1000TR-1

FCC Rule Part: Part 24D, 90, and 101

ACS Report Number: 05-0052-LD

Manufacturer: AMDS
Equipment Type: Electricity Meter Transmitter
Model: AMDS-1000TR-1

RF Exposure

General Information:

Applicant: ADVANCED METERING DATA SYSTEMS, LLC
ACS Project: 05-0052
FCC ID: SDBAMDS1000TR-1
Device Category: Mobile
Environment: Uncontrolled/General Population

Technical Information:

Antenna Type: PCB
Antenna Gain: 0dBi
Max Transmitter Output Power: 30.00
Max System EIRP: 30.00
Operating Configuration: Fixed Mounted to a Wall
Exposure Conditions: Greater than 20cm

MPE Calculation

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)

Calculations were performed at low and high channels within the band of operation. The low channel coincided with the maximum transmitter output power of 1W.

MPE Calculator for Mobile Equipment Limits for General Population/Uncontrolled Exposure*							
Transmit Freq. (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)**
896.05	30.00	0.60	1000.00	0	1	20	0.199
941.23125	29.03	0.63	799.83	0	1	20	0.159

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)."

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