Excellence in Compliance Testing

Certification Exhibit

FCC ID: SF3FLEX01
IC: 4706D-FLEX01

FCC Rule Part: CFR 47 Part 24 Subpart D, Part 90 Subpart I, Part 101 Subpart C
IC Radio Standards Specification: RSS 119, RSS 134

ACS Report Number: 08-0287

Manufacturer: Cooper Power Systems
Model: FLEX01

RF Exposure

General Information:

Applicant: Cooper Power Systems
ACS Project: 08-0287
FCC ID: SF3FLEX01
Device Category: Mobile
Environment: Uncontrolled/General Population

Technical Information:

Antenna Type: Wire Monopole
Antenna Gain: 0dBi
Max Transmitter Output Power: 29.15 dBm
Max System EIRP: 29.15 dBm
Operating Configuration: Mobile
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, middle, and high channels within the total band of operation.

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)**
896.0625	29.12	0.60	816.58	0	1.000	20	0.162
930.5	29.15	0.62	822.24	0	1.000	20	0.164
959.925	28.6	0.64	724.44	0	1.000	20	0.144

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

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