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Compliance Certification Services 16 June 2009
47173 Benicia Street
Fremont CA 94538

Attention: Application Examiner
Re: Class 2 Permissive Application to add co-located GSM/GPRS/UMTS Radio Module
Applicant: Silver Spring Networks
FCC ID: OWS-NIC505

Radio Module Grantee: Sierra Wireless
FCC ID: N7NMC8781

To whom it may concern,

Silver Spring Networks will be adding a certified module to their 902-928 MHz AP product used in wireless utility meter reading networks.

The 902-928 MHz frequency hopping spread spectrum radio is connected to an omni-directional monopole antenna. Including antenna cable loss, the effective gain of the antenna is 3 dBi.

The Sierra Wireless module will be connected to a MobileMark model RM3-900/1900 antenna. The antenna cable has a loss of about 0.5 dB at 824 MHz and 1dB at 1900 MHz, resulting in an effective antenna gain of 2.5 dBi at 824 MHz and 4 dBi at 1900 MHz.

The antenna gains are within the limits of the Sierra Wireless grant conditions.

The Sierra wireless can transmit either in the 800 MHz cellular band or the 1900 MHz PCS band, but not simultaneously. The 902 MHz FHSS can transmit simultaneously with the Sierra Wireless radio.

The two antennas are less than 20 cm apart. The EUT is mounted on utility poles and should be classified as a fixed installation.

Calculations presented in a separate exhibit show the worst-case MPE for both transmitters operating is 22cm. Instructions to the user of this product configuration will include a statement requiring at least 22cm separation between antennas and all persons.

Product photographs, a sample of the “Contains FCC ID:” label, MPE calculations from original Sierra Wireless certification submission, Sierra Wireless user manual excerpt regarding antennas, and the MobileMark antenna data sheet are also submitted as supporting exhibits.

If you have question or need further information please don’t hesitate to contact me.

Sincerely,

Thomas N. Cokenias
Agent for Silver Spring Networks

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