

ATTACHMENT

TECHNICAL DESCRIPTION OF GSM1800 PICOCELL TESTS

I. PURPOSE

Azimuth, Inc. is looking to develop a portable GSM cellular system for rapid deployment where little or no cellular infrastructure is operational. To test the system, a GSM base station and a small quantity of mobile handsets need to be operational. Tests are needed to demonstrate that the high-level functions of a cellular network can be adequately performed with minimal base station hardware.

II. TECHNICAL SPECIFICATIONS

The IPAccess nanoBTS1800 is being used as the base station. This is the commercially available unit for the GSM1800 band.

- **Radio Interface**
 - 1710-1785MHz uplink (mobile to base)
 - 1805-1880MHz downlink (base to mobile)
 - Maximum Output power 23dBm (with integrated antenna)
 - Power Control -1 to 23dBm in 12 x 2dBm steps
 - Antenna Integrated 0dBi omni-directional antenna
 - Configuration Single TRX, 8 timeslots, single 200kHz RF channel

Commercially available mobile handsets, including, but not limited to, Motorola RAZR V3i, are to be used in conjunction with the nanoBTS1800.

III. INTERFERENCE

To minimize interference with existing U.S. cellular providers, the GSM 1800 band was selected. There is some overlap with the GSM 1900 band used in the U.S., specifically 1850-1880MHz. To avoid interference, only 200kHz channels in the 512-525 (1805-1807.8MHz) range will be used.

IV. RF RADIATION EXPOSURE

All equipment is commercially available. The nanoBTS is available outside the U.S. and is intended to be permanently installed in office buildings, restaurants, and other public places where people are present. Therefore, we do not anticipate any exposure level issues with any of the cellular equipment used in the tests.