

**Exhibit 1**

February 25, 2005

**SECTION 2.911 (d) QUALIFICATION OF ENGINEERS**

Walter Steven Majkowski is a Member of Technical Staff at Lucent Technologies Bell Laboratories. He holds a BSEE from New Jersey Institute of Technology and was trained in the FCC testing procedures. Mr. Majkowski is the lead engineer for the filing of CDMA Wireless Base station products at Lucent Technologies. Mr. Majkowski is a NARTE certified EMC engineer, Certificate number EMC-001859-NE, and has at least twenty five years of EMC design and testing experience.

Daniel Donohue is a Member of Technical Staff at Lucent Technologies Bell Laboratories. He holds a BSEE from Farleigh Dickinson University and was trained in the FCC testing and filing process. Mr. Donohue has been involved in the RF design and test of Wireless Base station products at Lucent and has at least 15 years of RF design and testing experience.

R.J.Pillmeier  
Technical Manager  
Wireless FCC Compliance Group

**SECTION 2.911 (d) CERTIFICATION OF TECHNICAL TEST DATA**

I hereby certify that the technical test data are the results of tests performed or supervised by me.

**Walter Steven Majkowski NCE**  
**Member Technical Staff**  
**Whippany Compliance Laboratory**

**Exhibit 2****SECTION 2.1033(c)(1)**

Name of applicant indicating whether the applicant is the manufacturer of the equipment, a vendor other than the manufacturer (include the name of the manufacturer), a licensee or a prospective licensee.

**Response:** This information for the **P2PAM/ AS5ONEBTS-06** has not changed from that presented in the original filing.

Manufacturer: Lucent Technologies, Inc.  
6200 East Broad Street  
Columbus, OH 43213-1569 U.S.A.

Applicant: Lucent Technologies, Inc.  
101 Crawfords Corner Road  
Holmdel, NJ 07733 U.S.A.  
Attention: Cynthia S. Donovan

Lucent Technologies, Inc. will be the manufacturer of this product. The **AS5ONEBTS-06** will only be marketed under the Lucent Technologies Inc. trademark.

**SECTION 2.1033(c)(2)**

Identification of equipment for which Product Certification is sought.

**Response:** This information for the **P2PAM/ AS5ONEBTS-06** has not changed from that presented in the original filing.

**P2PAM, FCC ID: AS5ONEBTS-06**

**Exhibit 3****SECTION 2.1033(c)**

Applications for equipment other than that operating under parts 15 and 18 of the rules shall be accompanied by a technical report containing the following information:

**SECTION 2.1033(c) (4)** Type or types of emission.

**Response:** This information for the **P2PAM/ AS5ONEBTS-06** has not changed from that presented in the original filing. The **AS5ONEBTS-06** is capable of amplifying transmissions involving the following types of emissions:

**1M25F9W**

**SECTION 2.1033(c) (5)** Frequency Range.

**Response:** This information for the **P2PAM/ AS5ONEBTS-06** has not changed from that presented in the original filing.

**1930–1990 MHz: All PCS Blocks**

**Exhibit 3** *continued***SECTION 2.1033(c) (6)**

Range of operating power values or specific operating power levels, and description of any means provided for variation of operating power.

**Response:** This information for the **P2PAM/ AS5ONEBTS-06** has additional information from that presented in the original filing. The **P2PAM/ AS5ONEBTS-06** is a nominally rated 52 Watt/ 43 dB fixed gain linear amplifier. The output power that is delivered to the J4 antenna output connector of the cabinet in which the **P2PAM's** are mounted is reduced from this maximum value by filter insertion loss, RF transmission losses and margin for long term reliability.

The FCC "Range of Power" delivered at the J4 antenna connection has not changed from the original filing and is 0.01 to 20 Watts per carrier (+2 /-4 dB). This power is under continuous software control.

When the **P2PAM** is configured as a single Multi Carrier Amplifier with applicable filters, the maximum long term average rated power at the J4 antenna output connector remains 20 Watts +2 /-4 dB per carrier for one or two carriers. The total power at the antenna port for a single Multi Carrier Amplifier **MCA** configuration is 40 Watts +2 /-4 dB maximum.

When the **P2PAM** is configured as a Multi Carrier Amplifier with applicable filters, passive splitters and combiners the maximum long term average rated power at the J4 antenna output connector remains 20 Watts +2 /-4 dB per carrier. When two **P2PAMs** are configured as a Multi Carrier Amplifier the total power at the antenna port for a Five carrier **MCA** configuration is 100 Watts +2 /-4 dB maximum.

The use of post transmit filter combiners can allow multiple J4 outputs to share a given antenna connection.

**SECTION 2.1033(c) (7)** Maximum power rating as defined in the applicable part of the rules.

**Response:** The maximum average power output of the **AS5ONEBTS-06** at the J4 antenna output connector is 20.0 Watts per carrier for one to five carriers with 100 watts total for a five carrier Multi Carrier Amplifier configuration.

**Exhibit 4****SECTION 2.1033(c) (8)**

The dc voltages applied to and dc currents into the several elements of the final radio frequency amplifying device for normal operation over the power range. Confidential status has been requested for this information.

**Response:** This information for the **P2PAM/ AS5ONEBTS-06** has not changed from that presented in the original filing.

**Exhibit 5**

**SECTION 2.1033(c) (10)** Complete circuit diagrams.

Please see: Exhibit 5a in the Confidential section.

**Response:** This information for the **P2PAM/ AS5ONEBTS-06** has not changed from that presented in the original filing.

**Exhibit 6****SECTION 2.1033(c) (3)**

A copy of the installation and operating instructions to be furnished the user. A draft copy of the instructions may be submitted if the actual document is not available. The actual document shall be furnished to the FCC when it becomes available.

**Response:** This information for the **P2PAM/ AS5ONEBTS-06** has not changed from that presented in the original filing.

### Exhibit 7

#### SECTION 2.1033(c) (9)

Tune-up procedure over the power range, or at specific operating power levels.

**Response:** This information for the **P2PAM/ AS5ONEBTS-06** has not changed from that presented in the original filing.

### Exhibit 8

#### SECTION 2.1033(c) (10)

A schematic diagram and a description of all circuitry and devices provided for determining and stabilizing frequency, for suppression of spurious radiation, for limiting modulation, and for limiting power.

**Response:** The frequency determination and stabilization of the transmit signal as well as modulation limiting and power control has not changed from the original filing.

### Exhibit 9

#### SECTION 2.1033(c) (10)

A schematic diagram and a description of all circuitry and devices provided for determining and stabilizing frequency, ~~for suppression of spurious radiation, for limiting modulation, and for limiting power.~~

**Response:** This information for the **P2PAM/ AS5ONEBTS-06** has not changed from that presented in the original filing.

The **P2PAM AS5ONEBTS-06** amplifier was designed in adherence to proper Electromagnetic Compatibility (EMC) guidelines and RF shielding to significantly suppress inter-modulation harmonics, carrier induced harmonics and other spurious signals as well as the emissions radiated from them. The suppression of spurious radiation from the **P2PAM** was achieved by the following two techniques:

1. Proper grounding and shielding of the circuitry and device.
2. Proper filtering in the amplifier unit.

#### SECTION 2.1033(c) (10)

~~A schematic diagram and a description of all circuitry and devices provided for determining and stabilizing frequency, for suppression of spurious radiation, for limiting modulation, and for limiting power.~~

There is new information enclosed in Confidential Exhibit 9 with regard to new post amplification filters.

### Exhibit 10

#### SECTION 2.1033(c) (13)

For equipment employing digital modulation techniques, a detailed description of the modulation system to be use, including response characteristics of any filters provided, and a description of the modulating wavetrain, shall be submitted for the maximum rated conditions under which the equipment will be operated.

**Response:** Digital modulation is controlled by the Lucent Technologies UMTS CDMA Radio 1900 (**UCR1900**), **FCC ID: AS5ONEBTS-04**, granted 24 September 2002 or the **Multi Carrier Radio (MCR1900)**, **FCC ID: AS5ONEBTS-09**, granted 22 February 2005. The **UCR1900** and **MCR1900** provides the Quadrature Phase Shift Keying (QPSK) modulation required for CDMA signals.

**Exhibit 17****SECTION 2.1055 MEASUREMENT OF FREQUENCY STABILITY**

**Response:** This information for the **P2PAM/ AS5ONEBTS-06** has not changed from that presented in the original filing. There are no components that are part of the transmit signal frequency generating or stabilizing circuitry.

The frequency stabilization and accuracy of the CDMA signal amplified by the **P2PAM** is a function of the input signal which is provided from the **UCR1900, FCC ID: AS5ONEBTS-04**, granted 24 September 2002 or the **Multi Carrier Radio (MCR1900), FCC ID: AS5ONEBTS-09**, granted 22 February 2005.

**Exhibit 18****SECTION 2.1033 (c) (11)**

A photograph or drawing of the equipment identification plate or label showing the information to be placed thereon.

**Response:** This information for the **P2PAM/ AS5ONEBTS-06** has not changed from that presented in the original filing.

**Exhibit 19****SECTION 2.1033 (c) (11)**

Photographs (8"x10") of the equipment of sufficient clarity to reveal equipment construction and layout, including meters, if any, and labels for controls and meters and sufficient views of the internal construction to define component placement and chassis assembly. Insofar as these requirements are met by photographs or drawings contained in the instruction manuals supplied with the type acceptance request, additional photographs are necessary only to complete the required showing.

**Response:** This information for the **P2PAM/ AS5ONEBTS-06** has not changed from that presented in the original filing.