

Lucent Technologies
Bell Labs Innovations



Lucent Technologies Inc.
67 Whippany Road
Whippany, NJ 07981

January 6, 2000

Office of Engineering and Technology
Authorization and Evaluation Division
Equipment Authorization Branch
7435 Oakland Mills Road, Columbia, Maryland 21046

Re: Application for Class II Permissive Change under FCC ID: AS5CMP-33

Dear Examiner:

In accordance with Parts 2 and 22 of the Commission's Rules and Regulations, we are submitting herewith statements and supporting data to show compliance with the requirements of the Commission for a Class II Permissive Change of the Lucent Technologies FLEXENT™ Cellular Multi Carrier Linear Amplifier (CMCLA), Part Number 44WA29, under FCC ID: AS5CMP-33. The CMCLA was previously authorized by the Commission as a base station power amplifier, designed to perform linear amplification of from 1 to 10 TDMA carriers (30 kHz bandwidth) at a maximum rated power level 1.2 Watts (+30.8 dBm) per carrier and a total composite power level for 10 carriers of 12 Watts (+40.8 dBm), at the transmit antenna terminal. The purpose of this Class II Permissive Change request is to obtain authorization to transmit Analog carriers and to add the appropriate Analog emission designators to this filing. There has been no change to the CMCLA circuitry or design to accommodate Analog operation. It is designed to be installed and operate in the FLEXENT™ Cellular TDMA/Analog Microcell J41698B-1 base station equipment frame, in combination with the TDMA/Analog Cellular Dual Radio Module (CDRM), Part No. 44WR54, previously authorized under FCC ID: AS5CMP-32 as a separate certification. The only modification to enable Analog operation is to the CDRM transceiver's firmware and controlling software, which now permit analog operation as an option for our customers. The CDRM circuitry and output power level per carrier have not been changed. The CDRM can now transmit 1 or 2 carriers either unmodulated (i.e., for test) or with analog modulation, without affect on the CMCLA's RF performance or output power level.

The data summarized below is in the form presently used by the Commission's Radio Equipment List, Equipment Acceptable for Licensing. The only change from the initial filing is the addition of analog emission designators.

Manufacturer	Lucent Technologies, Columbus, Ohio
Equipment Identification	AS5CMP-33
Rules Part Number	Part 22, Subpart H – Cellular Radiotelephone Service
Frequency Range	Transmit 869.04 – 893.97 MHz
Output Power	1.2 Watts (+30.8 dBm) per carrier maximum 12.0 Watts (+40.8 dBm) total composite for 10 carriers.
Frequency Tolerance	± 1.5 ppm
Emission Designator	40K0GXW 40K0F7D 40K0F8E

The Cellular-MCLA, under AS5CMP-33, was designed in accordance with the guidelines of TIA/EIA/IS-136.2-A (October 1996): TDMA Cellular/PCS–Radio Interface–Mobile Station–Base Station Compatibility – Traffic Channels and FSK Control Channel ; and of TIA/EIA/IS-138-A (July 1996): TDMA Cellular/PCS – Radio Interface – Minimum Performance Standards for Base Stations. The analog operation, which is the subject of this application, is covered in TIA/EIA/IS-138-A, Section 3: Transmitter Minimum Standards.

Attached are the FCC Form 731 (Application for Equipment Authorization – Radio Frequency Devices) and the required measurement data and exhibits, which are specific to Analog operation. In accordance with Part 2.1043(b)(2) Changes in Certified Equipment, only the results of tests of the characteristics affected by this Class II Permissive Change are required. These exhibits contain the technical requirements, and the required statements and documents for equipment authorization. The technical contact at Lucent Technologies will comply with any request for additional information should the need arise.

Lucent Technologies has requested that the following exhibits be **considered confidential**:

**Exhibit 3 FLEXENT™ TDMA/Analog Microcell:
Operation, Administration, and Maintenance Manual**

The letter of request is attached and the required fees are submitted as required for electronic filing.

Sincerely,

R. J. Pillmeier
Technical Manager
Certification Test Group

Att.
Transmitter Certification Report