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Subject: **Application for Class II Permissive Change Authorization under FCC ID: AS5ONEBTS-25, to Add Expanded Power Amplifier Usage.**

April 12, 2013

Mr. Sid Sanders, President
Timco Engineering, Inc.
849 N. W. State Road 45, P. O. Box 370
Newberry, Florida 32669

Dear Mr. Sanders:

The subject of this Class II Permissive Change request is the expanded usage of the 60W power amplifier (PA) for multi PA in parallel and multi contiguous carrier operation. This 1900 MHz High Efficiency RF Power Amplifier (HEPAM) was previously authorized for single PA and single carrier operation, at 72W 3-second average, under the UMTS emission designator 4M10F9W. Expanded usage includes either one, or two and three HEPAM interconnected in parallel to allow one, two and three contiguous carrier operation **without exceeding 60W per HEPAM.**

Number of Parallel Power Amplifiers	**1xHEPAM**	**2xHEPAM**	**3xHEPAM**
RF Power per Amplifier	60W	60W	60W
Number of Carriers	Power per Carrier	Power per Carrier	Power per Carrier
1C	60W	100W	NA
2C	30W/C	60W/C	90W/C
3C	20W/C	40W/C	60W/C

The Frequency Spectrum subject of this application is Part 24 — Personal Communications Services (1930 - 1990 MHz). The RF power at the downlink (DL) antenna terminal will not exceed 60W per HEPAM. When used in combination with the MCR-1900 transceiver, authorized under AS5ONEBTS-09, both the HEPAM and MCR-1900 comprise the 9391 OneBTS Macrocell transceiver system.

The footnote on the Grant should read:

> *Class II Permissive Change: The 9391 OneBTS Macrocell is rated for 72W RF power per Power Amplifier (PA) with a single UMTS carrier. When operated at 60W per PA, the usage can be expanded to either a single or two and three PA in parallel to produce either* one, two or three contiguous carriers without exceeding 60W RF power per Power Amplifier. The total composite power is: 1xPA @ 60W, 2xPA @ 120W, and 3xPA @ 180W.

Alcatel-Lucent hereby requests that the FCC Grant of Equipment Authorization display the initial and all subsequent Class II Permissive Change grant notes.

In accordance with Sec. 2.1043 *Changes In Certificated Equipment*, only the characteristics affected by the change need to be reported. As such, the applicable measurements affected are contained in the Test Report Exhibit, and all other Exhibits submitted with the initial filing that remain unchanged need not be repeated. All initial exhibits that were granted permanent confidentiality are unchanged and continue to remain confidential, and will not be repeated with this submission.

This system complies both with the Federal Communication Commission (FCC) Rules and Regulations (47 CFR Part 24E), and with the European Telecommunications Standards Institute (ETSI) 3rd Generation Partnership Project (3GPP) Technical Specifications TS 25.104 and TS 25.141. UMTS functionality was developed in accordance to the guidelines of the standard : ETSI TS 125 141 V7.15.0 (2010-02) Universal Mobile Telecommunications System (UMTS); Base Station (BS) conformance testing (FDD); (3GPP TS 25.141 version 7.15.0 Release 7). The measurement exhibits attached to this application demonstrate full compliance with both FCC Part 24 — Personal Communications Services, Subpart E — Broadband PCS and with ETSI TS 25.141, following the procedural requirements specified in FCC Part 2, Subpart J – Equipment Authorization Procedures. The data summarized below is in the form presently used by the Commission's Radio Equipment List, Equipment Acceptable for Licensing.

Manufacturer	Alcatel-Lucent USA, Inc.
Equipment Identification	AS5ONEBTS-25
Rules Part Number	Part 24 — Personal Communications Services, Subpart E — Broadband PCS
Frequency Ranges	Transmit 1930 – 1990 MHz
Output Power	60 Watts (+47.8 dBm) per Power Amplifier at the Tx Antenna Terminal
Frequency Tolerance	± 0.05 ppm
Emission Bandwidth	5.0 MHz
Emission Designator	4M10F9W

Attached are the FCC Form 731 (Application for Equipment Authorization – Radio Frequency Devices) and the required measurement data and exhibits specific to this request for Class II Permissive Change authorization. The technical contact at Alcatel-Lucent USA, Inc., will comply with any request for additional information should the need arise. The attached exhibits are assembled and presented in the sequence recommended by Timco Engineering.

In the initial filing, permanent confidentiality was requested and granted for the confidential exhibits re-stated below. Alcatel-Lucent hereby requests that **they continue to be held permanently confidential. Since none have changed, they will not be re-submitted.**

07-IntPhotoConfidential_AS5ONEBTS-25_CONFIDENTIAL
09-OpDes_AS5ONEBTS-25_CONFIDENTIAL
10-BlkDia_AS5ONEBTS-25_CONFIDENTIAL
11-Schem_AS5ONEBTS-25_CONFIDENTIAL
13-UserMan_AS5ONEBTS-25_CONFIDENTIAL

Sincerely,

Rudolf J. Pillmeier
GPCL Technical Manager
FCC/EMC Compliance Test Group