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February 28, 2013

Timco Engineering Inc.  
 Telecommunication Certification Bodies  
 849 NW State Road 45  
 Newberry, Florida 32669

Subject: Application for Original Equipment Certification under FCC ID: AS5BBTRX-08 for MCO 2x5W Base Station, Operating in the Miscellaneous Wireless Communications Services, 746-756MHz, with LTE Technology

**Dear Examiner:**

In accordance with Parts 2 and 27 of the Commission's Rules and Regulations, we are submitting statements and supporting data to show compliance with the requirements of the Commission for the certification of the Alcatel-Lucent 9764 LightRadio™ Multiple Input Multiple Output (MIMO) Metro Cell (MCO) 2x5W, henceforth MCO 700U 2x5W, under FCC ID AS5BBTRX-08, for operation in the domestic 700 Upper Band C Band (Tx: 746-756 MHz and Rx: 777-787 MHz), i.e., E-UTRAN band 13, with Long Term Evolution (LTE) technology.

The Metro Cell is a small cell, designed to be deployed as an overlay in an existing macro coverage area to provide increased throughput and coverage in the public open areas. The Metro 2x5W supports MIMO with 2 transmit and 2 receive streams. The MCO 700U has two antenna ports. The maximum output power of each port is 37dBm or 5W, i.e., 10W (40dBm) in total. The MCO 700U 2x5W is powered by AC power supply in the range of 160 to 264 VAC and 47 to 63Hz. Currently it is available in outdoor version only. The 2x5W 700U Metro Cell does not have an integrated antenna and customers will select their own antennas for deployment.

The Metro 2x5W consists of a Digital/RF Analog board, Power Amplifier Board, Power Module and RF Filter.

The data summarized below is in the form presently used by the Commission's Radio Equipment List.

|                          |  |
|--------------------------|--|
| Manufacturer             | Alcatel-Lucent, Inc.                                   |
| Equipment Identification | AS5BBTRX-08  |
| Rules Part Number        | Part 27  |
| Frequency Range          | Transmit: 746-756MHz, Receive: 777-787 MHz.            |
| Output Power             | 0-5W per LTE carrier, 0-5W per Tx Port, 0-10W per Unit |
| Frequency Tolerance      | ± 0.05 ppm   |
| Emission Designator      | 10M00F9W   |

Enclosed in this application package are the FCC Application Form 731, letter of Request for Confidentiality, Table of Contents, List of Acronyms used in the application and the required exhibits. These exhibits contain the technical data and the required statements and documents for equipment certification. The technical contact at Alcatel-Lucent will comply with any request for additional information should the need arise.

The fees are submitted as required for radio equipment certification filing.

Sincerely,



R.J. Pillmeier  
 Technical Manager  
 FCC Compliance Test Group