

Alcatel-Lucent
6200 E. Broad Street
Columbus, OH 43213

November 11, 2008

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

Subject: Application for Class II Permissive Change under FCC ID: AS5ONEBTS-19 for 9234 RRH 40W AWS Distributed Base Station, Operating in the Advanced Wireless Services, 2110-2155MHz, with CDMA Technology

Dear Examiner:

The Alcatel-Lucent 9341 RRH 40W AWS Distributed Base Station has been authorized and granted under FCC ID: AS5ONEBTS-19, effective November 10, 2008, for operating in the Advanced Wireless Services (AWS) (2110-2155MHz) with Universal Mobile Telecommunications System (UMTS) technology. The purpose of this Class II Permissive Change Application is to extend the current authorization under AS5ONEBTS-19 for the Alcatel-Lucent 9234 RRH 40W AWS Distributed Base Station to cover Code Division Multiple Access (CDMA) technology.

The Alcatel-Lucent 9234 RRH 40W AWS CDMA Distributed Base Station, henceforth CDMA Distributed Base Station, is a wireless base station which utilizes CDMA technology, including CDMAone, CDMA2000 1x, 3x and CDMA2000 1xEVDO (Evolution Data Optimized) for use in the domestic telecommunications services.

The Distributed Base Station is comprised of two separate modules 1) the digital Base Band Unit (BBU) and 2) the Remote Radio Head (RRH). These two modules are interconnected by Common Public Radio Interface (CPRI) through optic fiber or metallic coax cables when the separation is less than 3m. The RRH contains all RF functionality, including transceiver, power amplifier and transmitting and receiving filters. Therefore, **all critical RF components are enclosed in the RRH**. The BBU provides the digital I and Q baseband signals, plus the 15MHz reference frequency to the RRH. The BBU can be a unit specially designed for the distributed application or utilize the digital baseband shelf of a non-distributed base station system. The RRH is a full-feature remote-able transceiver. Each BBU can support multiple RRH units. A one-sector distributed base station consists of two boxes, one BBU and one RRH. A three-sector distributed base station results in four boxes, one BBU and three RRHs. This architecture provides the flexibility in the deployment. The BBU and RRH units can be co-located or remotely located. The communication between the RRH and the BBU is accomplished by the Optical CPRI Module (OCM) card, which is situated in any of the radio slots of the BBU shelf of a non-distributed base station system or is built in a BBU specially designed for the distributed application.

The AWS distributed base station supports multiple carriers and multiple sectors (up to 6) configuration. The CDMA 9234 distributed base station can provide up to 40 Watts (46dBm) per carrier, 40 Watts (46dBm) per port for multi-carriers and 80 Watts (49dBm) per sector at the base station transmitting antenna terminals, the same as the certified AWS UMTS 9341 distributed base station. The UMTS 9341 RRH is identical to the CDMA 9234 RRH. There are no modifications in the transmitting and

receiving frequency ranges, the basic frequency determining circuitry, the basic modulator circuit, the network interface circuitry and the major RF components (transmitter and power amplifier in the RRH) certified under AS5ONEBTS-19. In addition, the physical frames of the CDMA distributed base station are identical to that of the UMTS distributed base station. As with the UMTS distributed base station, the CDMA distributed base station is available in indoor, outdoor, slim frame, regular frame, AC, +24V and -48V versions.

Therefore, in accordance with CFR 47 Part 2.1043, a Class II permissive authorization is requested to authorize the AWS CDMA 9234 distributed base station under the existing FCCID AS5ONEBTS-19.

In accordance with CFR 47 Parts 2 and 27 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 the Class II permissive change certification of the Alcatel-Lucent 9234 RRH 40W AWS CDMA Distributed Base Station System under FCC ID AS5ONEBTS-19, for operation in the domestic Advanced Wireless Services A, B, C, D, E and F bands. Only the documents, photos and testing data, which are affected by this Class II permissive change, are being submitted. Those documents and responses submitted to the FCC in the previous certification applications under AS5ONEBTS-19, which are still valid for this application, are not being resubmitted.

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

Manufacturer	Alcatel-Lucent, Columbus, Ohio
Equipment Identification	AS5ONEBTS-19
Rules Part Number	Part 27
Frequency Range	Transmit: 2110-2155MHz, Receive: 1710-1755 MHz
Output Power	0 to 40W per Carrier, 0 to 40W per Tx Port, 0 to 80W per Sector
Frequency Tolerance	± 0.05 ppm
Emission Designator	1M25F9W

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