



Certification Application

June 25, 2002

American Telecommunications Certification Body, Inc.
6731 Whittier Avenue
Suite C110
McLean, VA 22101

RE : Class II Permissive Change Certification Application
FCC ID : AB6NT1900MFRM

Dear Sir/Madam,

Please accept this application for the class II permissive change certification of the product filed under Part 2 Subpart J, for equipment operating under Part 24, Subpart E of the regulations of the Federal Communications Commission. The product for which authorization is sought is Nortel Networks' 1900MHz MFRM radios. The summary of the major design modifications in the 1900 MHz MFRM radios were:

- (i) The OEM power amplifiers (MCPA) have been cost-reduced and re-designed by the OEM vendor, Powerwave. No changes have been made on the performance design specifications.
 - a) Powerwave received an original equipment grant E675JS00591 for this re-design PA.
 - b) Manufacturability improvements:
 - Design amplifier to be one layer.
 - Use router boards and Multi-function board for RF, DC and digital routing to reduce transitions and cost
 - Use cast covers for modules. Make the housing a flat plate with a 'bath tub' cover.
 - Remove integration step of decks to reduce labor
 - c) Add 'heaters' to the detector circuits to improve RMS detect performance.
 - d) Improve margin to mask over temperature.
- (ii) The OEM RF front-end duplexer modules (DPM) have been designed and built by a new vendor, Allgon. No changes have been made on the performance design specifications.
- (iii) The OEM power supply modules (HPCA) have been redesigned by the ASTEC and ASCOM OEM vendors to cover both –48V and 24V requirements. The performance design specifications are identical or excess to the single voltage units.
- (iv) The OEM main power filter modules (MPFM) have been redesigned by the OEM vendors, GE-ACT and Spectrian to cover both –48V and 24V requirements. The performance design specifications are identical or excess to the single voltage units.

All detailed information is included in the respective exhibits as required by the Rules. Please find the following attached exhibits:

- EXHIBIT 1: Application
- EXHIBIT 2: Test Report Summary
- EXHIBIT 2A: Test Report Provided by Nortel Networks
- EXHIBIT 2B: Test Report Provide by Sanmina-SCI
- EXHIBIT 3: Technical Description
- EXHIBIT 4: Transmit Label Photos
- EXHIBIT 5: External Photos
- EXHIBIT 6: Internal Photos
- EXHIBIT 7: Test setup Photos
- EXHIBIT 8: Schematics
- EXHIBIT 9: Parts Lists
- EXHIBIT 10: RF Exposure Guidelines for PCS and Cellular

Please contact me for further information if necessary. Thank you for your attention to these matters.

Important: Please see attached request for confidentiality.

Sincerely,



Signature

Thomas Wong,
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