



## Original Equipment Certification Application

Dec 16, 2003

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

RE : Class II Permissive Change Certification Application  
FCC Tx ID : AB6NT1900MFRM2

Dear Sir/Madam

Please accept this application for the original equipment 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 MFRM2 radios.

The design changes being incorporated with this version of HW comparing with the HW filed to FCC in March, 2003 are:

- Used a new heat-spreading bonding material under power amplifiers.
- Component debarnacles.
- Enhancements for manufacturability including re-layout and testability improvement.
- Rx SAW isolation improvement.
- Rx LNA substitution.
- Improved the stability of a Tx gain block.
- Increased RF Rx gain.
- Rx ADC clocks buffering.

Based on previous testing on MFRM-2 800MHz, IS95A emissions were worse than 1xEV-DO; therefore, only spot checks have been done on the 1xEV-DO modulation.

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 Provided by Solectron (Ottawa)
- EXHIBIT 3: Technical Description
- EXHIBIT 4: Transmit Label Information
- EXHIBIT 5: External Photos
- EXHIBIT 6: Internal Photos
- EXHIBIT 7: Users Manual
- EXHIBIT 8A: Schematics (NTGY32BA pg 1-25)
- EXHIBIT 8B: Schematics (NTGY32BA pg 26-50)
- EXHIBIT 8C: Schematics (NTGY32BA pg 51-76)
- EXHIBIT 8D: Schematics (NTGY33BA, NTGY35AA, and NTGY38AA)
- EXHIBIT 9: Parts Lists (NTGY32BA, 33BA, 35AA, 38AA)
- EXHIBIT 10: RF Exposure Guidelines for PCS and Cellular
- EXHIBIT 11: Test Setup Photos



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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