



19<sup>th</sup> September 2002

Authorization & Evaluation Division  
Federal Communications Commission Laboratory  
7435 Oakland Mills Road  
Columbia, MD 21046

Dear Sir;

Motorola Inc., 8000 West Sunrise Boulevard, Fort Lauderdale, Florida 33322, herein submits its application for Certification of the transmitter with FCC ID: AZ489FT5820. This variable power (1milliWatt to 1.46Watt ERP) transmitter is part of a handheld transceiver used in a SMR trunking system operating in the United States 896-901/935-940 MHz frequency band. Certification is sought for, and performance data is provided.

This transceiver is of the receive-first type described in International Telecommunications Union Recommendation ITU-R M.1221 entitled *Technical And Operational Requirements For Cellular Multimode Mobile Radio Stations*. It must first find, acquire and lock onto a control channel from a predefined set of control channel frequencies assigned to a companion Authorized base station (e.g. – FCC ID: ABZ89FC5792). Transmission is not possible until lock to a base station control channel has been achieved, and then transmission is limited to digitally modulated service request bursts on the reverse control channel. Upon recognition of a proper request, the control channel base station transmitter will then assign the transceiver a traffic channel for transmission of digital voice or circuit-switched data from the set of frequencies for which the trunking system is licensed. Attached Exhibit 12.1 provides additional descriptive details.

It is expected that this handheld time division multiplexed transceiver marketed in the United States will also be used for itinerant operation with companion Authorized Base Stations by users requesting trunked radio and telephone interconnect service while roaming outside the United States.

It is also expected that this transceiver type will be marketed outside the United States and brought into the United States for itinerant “roaming” operation on compatible 896 - 901 MHz base stations located within the United States. Consequently, upon receipt of Authorization, only those units of this equipment type authorized for marketing in countries outside the United States will also bear a label with the specified FCC identifier.

In accordance with 47 CFR 2.1093(c) this transmitter may be used in “covered” SMR service so it has been subjected to routine environmental evaluation for RF exposure and found to be compliant with the limits specified in 47 CFR 2.1093(d)(2).

The subject transmitter complies with 47 CFR 90.203 of the rules in that the operator cannot directly program transmit frequencies using only the unit's normally accessible external controls.

This transceiver can function as a Part 15.3(r) computer peripheral device when functioning as an RF modem when connected to a computer via a data cable (ref: Exhibit 12.1).

Enclosed is a complete Certification Application comprised of 13 Exhibits. Contact me at (954) 723-5793 if you require any additional information.

Sincerely,  
/s/ Mike Ramnath  
FCC Liaison  
Email: [mike.ramnath@motorola.com](mailto:mike.ramnath@motorola.com)