MOTOROLA
Integrated Information Systems Group

18 December, 2000

Communications Certification Lab
1940 West Alexander Street
Salt Lake City, Utah 84119

Attention: Mr. William S. Hurst

Re: Application for Permissive Changes, Class II, for FCC ID: ABZMCAD200

Motorola, Inc., Integrated Information Systems Group, 8201 E. McDowell Rd, Scottsdale, Arizona 85252 herein submits this application for Class II Permissive Changes to the Card Acceptance Device (CAD+) module. The Card Acceptance Device (CAD+) is manufactured by Motorola WSSD located at 1301 East Algonquin Road, Schaumburg, IL 60196.

The following changes were incorporated into the CAD+, FCC ID: ABZMCAD200. These changes were made as a result of the original testing on the CAD+ and which have been implemented into this most recent revision of the product.

a) Ground traces were implemented between Shield 1 and 2 on the control board thereby providing a more effective reference between the RF Transmitter and Receiver sections of the module.
b) A 47pf capacitor was added inside Shield 1 of the RF Transmitter, which connects the AM_MOD side of R156 to ground and effectively reduces the emissions radiating from the collector of the drive transistor.

A change to the conducted and radiated emissions signature was noticed during the compliance verification of the most recent revision of this equipment. Although this data was still in compliance with Part 15 requirements, it was perceived as degradation to the performance characteristics of the original filing. The final emissions data is included in the attached test report for your review.

Additionally, the firmware has been updated from a version of V1.1 to V1.2. This change is explained in the attached memo and does not include any associated hardware modifications nor does it affect the RF functionality of these devices. The only difference consists in software communication protocol modifications. This change is noted here for information only and for completeness of the current changes.

Sincerely,

Gil Estrella
EMC Engineer
Motorola IISG