Northwest EMC	TCB Compliance Opinion	Rev. 9/15/03

Information about the Applicant	
Company Name	Intermec Technologies Corporation
Grantee	Cheryl D. White
Address	6001 36th Ave. W
City, State, Zip	Everett, WA 98203
Job Number	ITRM0035
Model	900 MHz RFID Reader
FCC ID	HN2UAPRFID-900
Agent	none
Approval Type	Class II Permissive Change
Equipment Class	DSS Part 15 Spread Spectrum Transmitter
Rule Part	15.247

Overview

The device is a previously certified frequency hopping spread spectrum radio operating in the band of 902 - 928 MHz under 15.247 of the rules. The original application and subsequent Class II permissive change were approved with 6 dBi panel antennas. The FCC grant specifies a 20 cm separation distance between the antennas and all persons. The grant also prohibits co-location and operating in conjunction with any other antenna or transmitter.

The purpose of this Class II permissive change is to add 3 more panel antennas for use with the radio. The new antennas are the same or lesser gain than the panel antennas already approved in the original application. Due to the same or reduced gain of these antennas (relative to the already approved antennas), radiated spurious emissions testing was deemed unnecessary by the applicant and not performed.

Although the original application contains conducted emissions data to CISPR 22 limits, conducted emissions data was also submitted with this Class II permissive change application to demonstrate compliance with the new 15.207 limits (FCC Part 15, Version April 23, 2004).

Recommendation

All items have been resolved and completed to my satisfaction; therefore I recommend this application for approval.

Signature

8/12/2004

Greg Kiemel, TCB Committee

Opinions	
Specification Requirements	**Description**
47 Cfr 2.1033(b)(4)	Antenna Information
Opinion	The device meets the requirements of the rule.
Discussion	The client has provided the necessary exhibit.
Reference	Antenna Information.pdf, Test Report.pdf

Specification Requirements	Description
47 Cfr 2.1033(b)(6)	Measurement Report
Opinion	The device meets the requirements of the rule.
Discussion	The client has provided the necessary exhibit.
Reference	Test Report.pdf

Specification Requirements	Description
47 Cfr 2.1033(b)(7)	Antenna photos
Opinion	The device meets the requirements of the rule.
Discussion	The client has provided the necessary exhibit.
Reference	Antenna Information.pdf

Specification Requirements	Description
Required Exhibit	Test Setup Photo Exhibit
Opinion	The device does not meet the requirements of the rule.
Discussion	Although the new AC powerline conducted emissions test data was not accompanied by test setup photos, the original application contains test data and photos that demonstrate compliance with the new 15.207 requirements.
Reference	Original application for FCC ID: HN2UAPRFID-900, Test report 4 of 4.pdf, Setup Photo 4 of 4.pdf

Specification Requirements	Description
47 Cfr 1.1307(b),2.1091,2.1093	RF Exposure Hazard
Opinion	The device meets the requirements of the rule.
Discussion	The client has provided the necessary exhibit. The TCB has verified the MPE calculations
Reference	Test Report.pdf, Antenna Information.pdf, RF Exposure.pdf

Specification Requirements	Description
47 Cfr 15.203	Antenna Requirements
Opinion	The device meets the requirements of the rule.
Discussion	The client has provided the following attestation in their test report, “Intermec Technologies will now use a reverse polarity TNC connector. This connector satisfies all conditions outlined in 15.203. Field units that upgrade antennas will be sent to an Intermec Technologies service center and fitted with the reverse polarity TNC connector.”
Reference	Test Report.pdf

Specification Requirements	Description
47 Cfr 15.207	Power line Conducted emissions
Opinion	The device meets the requirements of the latest version of Part 15 of the FCC rules.
Discussion	The client has provided the necessary exhibit. The original application also contains test data and photos that demonstrate compliance with the new 15.207 requirements.
Reference	Test report.pdf. See also the original application for FCC ID: HN2UAPRFID-900, Test report 4 of 4.pdf, Setup Photo 4 of 4.pdf