April 13, 2000

RESPONSE TO SAR QUESTIONS

(Correspondence Reference Number: 13104)

Federal Communications Commission
Authorization and Evaluation Division
7435 Oakland Mills Road
Columbia, Maryland 21046

Re: Application for Cellular/PCS Transceiver Certification (EA96830)

Kwok Chan &: Frank Coperich

Purpose:

This document responds to questions on the submission for the IHDT5ZW1 (EA96830) application.

Description:

To facilitate the response to SAR questions, the following includes the original text and the highlighted response.

From: Frank Coperich
fcoperic@fcc.gov
FCC Application Processing Branch

Re: FCC ID IHDT5ZW1
Applicant: Motorola Inc
Correspondence Reference Number: 13104
731 Confirmation Number: EA96830
Date of Original E-Mail: 03/29/2000

1. Filing has requested 480 mW ERP for AMPS mode and 250 mW ERP for CDMA mode. Measured ERP for AMPS mode is 537 mW and 282 mW for CDMA mode. Please confirm if requested levels are OK or measured levels are desired for the grant.

RESPONSE:

I erred when submitting part 12 of the 731 form by entering conducted power instead of radiated power. In addition, Motorola has revised the ERP values as shown below:

Effective Radiated Power (ERP)

Analog (AMPS) Mode: 408 mW
Digital (CDMA) Mode 214 mW

The conducted numbers of 478mW and 251mW (indicated in exhibit 6A) do not change. Please update line 12 of the 731 form to indicate the revised ERP numbers (408 & 214 mW) . A revised Exhibit 6A was uploaded into the test report folder to reflect this update.

2. SAR for antenna retracted operating configurations were tested at reduced output, 210 mW for AMPS and 80 mW for CDMA (both conducted output). Please confirm that these are the maximum conducted output levels for antenna retracted operating conditions and describe the mechanisms for maintaining the reduced output. It needs to be clarified if the indicated conducted output (in the SAR report) is at the antenna terminal or at some other measurement point.

RESPONSE:
The 210mW and 80mW values are conducted and measured at the radio RF test connector. Due to the extended margin to the SAR requirement (and to improve customer satisfaction), Motorola will increase the conducted power levels to 250 mW for both AMPS and CDMA modes when the antenna is in the retracted position. These power levels are maintained using the same circuitry as is used to maintain the power levels when the antenna is extended.

3. Please identify the peak SAR location with respect to the phone for the antenna IN and OUT configurations for body-worn SAR, and identify the minimum separation distance between the extended antenna and the body phantom. The current manual calls for 1 inch separation and the antenna tilts toward the back of the phone, is this distance appropriate for body-worn conditions with the antenna extended ?

RESPONSE:
A Supplemental SAR report, submitted into the RF exposure folder on 4-13-00, provides the requested information.

Contact Information:

Thank you for this special consideration. Please contact me by telephone at (847) 523-6167, or by e-mail (A.Bachler@motorola.com), if there are questions or additional information needed concerning this filing.

Regards,

Andrew J. Bachler
FCC Liaison
Cellular Subscriber Sector
600 N. U.S. Highway 45
Libertyville, IL 60048-5343