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September 27, 2001

Attention: Reviewing Engineer
Federal Communication Commission
7435 Oak Mills Road
Columbia, MD 21046

RE: Application and SAR test exclusion

To whom it may concern:

Wherify Wireless, Inc. has a product that does not fit the conventional description of a PCS cell phone. There is no voice mode. Here is a summary of the product description and theory of operation for the Personal LOCATOR. The Personal LOCATOR is a wrist worn device containing a network assisted GPS receiver and the data transfer capabilities of a 1900 MHz CDMA phone.

1. It does not support voice services
2. It is designed for very low duty cycle operation
3. It is not designed for extended "on" times
4. It has a maximum transmit power of +24 dBm with an omni directional antenna for transmit
5. The battery has a 410 maHr capacity
6. The unit will run in normal standby mode for 1.5 days

The operational cycle of the device is called a LOCATE. In normal use, the product will be used to make about 25 LOCATEs per month. In emergency use, the product can be configured to make a LOCATE every 2 minutes until the battery is exhausted. Each LOCATE consists of the following steps:

1. The Call Center sends the LOCATOR an SMS message that requests the LOCATOR to establish an internet QNC session
2. The LOCATOR initiates the QNC session and receives an Ephemeris is data package that is 750 Bytes maximum
3. The LOCATOR terminates the session and powers down the CDMA RF section
4. The LOCATOR powers up the GPS receiver and acquires a location fix. This requires from a few seconds to over a minute

Wireless Location Services

5. The LOCATOR powers down the GPS receiver and powers up the CDMA RF section
6. The LOCATOR initiates a second QNC session with 60 to 280 byte transmission of where it is
7. The LOCATOR returns to CDMA slotted mode
    -   Power down the CDMA RF section
    -   Wait for 1.28 seconds
    -   Power up the CDMA RF section for ~40 mS to receive any page traffic
    -   Repeat cycle until an SMS message is received

Worse case transmission is during an emergency configuration on a poor link, which will require maximum transmit power, and longest on-air time, due to using the lowest data rate.   During this mode, there is an initial 24.5 seconds transmission followed by a 24.1 seconds transmission every two minutes until the battery is exhausted. The battery will last approximately 28 cycles or about 55.8 minutes. We are asking for relief in the SAR test requirement.

If you have any additional questions, please direct them to me.

Respectfully,

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