16 August, 2000

Mr. Joe Dichoso
FCC Application Processing Branch

Re: Questions from the FCC

FCC ID: **OWDTR0006-E (as Com-Net Ericsson wants it)**
Correspondence Reference Number: **15381**
731 Confirmation Number **EA97259**
Date of Original E-Mail: **08/02/2000**

Dear Mr. Dichoso:

Pursuant to your e-mail to Com-Net Ericsson Critical Radio Systems, Inc.'s Kevin Markey, I am forwarding to you our responses to items 1 through 3. The relevant portions of the FCC's e-mail follow with our response inserted in the appropriate place:

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> Sent: 02 August, 2000 5:17 PM
> To:   Kevin Markey, euskpm@am1.ericsson.se
        Com-Net Ericsson Critical Radio Systems, Inc.
> From: Joe Dichoso, jdichoso@fcc.gov
>       FCC Application Processing Branch
> Re:                              FCC ID OWDTR-0006-E
> Applicant:                       Com-Net Ericsson Critical Radio
                                   Systems, Inc.
> Correspondence Reference Number: 15381
> 731 Confirmation Number:         EA97259
> Date of Original E-Mail:         08/02/2000
>
> 1. Two test configurations were used in the body-worn SAR
> evaluation, "Clip" and "Phone" parallel to the phantom.  Please
> clarify or provide illustrations for these two test configurations.
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Figures 1 (Clip parallel) and 2 (Phone parallel) show how the device was place against the flat phantom during SAR measurements. The construction of the clip is such that a belt passing through it will have to be more than 3mm (~1/8") thick before opening up the clip, i.e. it no longer touches the handset below the belt. A belt would have to be about 10mm (0.4") thick, which would be an extremely thick belt, to open the clip enough for the "Phone parallel" position to apply.

Figure 1. Handset positioned in the "Clip parallel" to phantom surface position.

Figure 2. Handset positioned in the "Phone parallel" to phantom surface position

> 2. At the end of Section 6.2(4) of the body-worn SAR report - "In
> addition, the belt-clip was in contact with the phantom but the phone
> was kept parallel to the phantom instead of the side of the belt-clip
> that would be against the body", please provide an illustration for
> this test configuration.

Figure 2 above show what is described here. The above pictures were taken on a table top and inverted to simulate the positioning against the phantom. Therefore the spacer visible in Figure 2 which is sitting on the table top to create the "Phone parallel" situation, would not actually be needed during SAR measurements, as the handset would rest on the positioning surface.

> 3. There should be two body-worn operating configurations for each
> antenna, with the antenna on the handset or with the antenna on the
> microphone. Body-worn use with either antenna attached to the
> microphone does not appear to have been evaluated. Please clarify
> and provide applicable SAR data.

The following table shows the worst case single point SAR for the scans previously reported both for the body SAR measurements (CNEB-Jaguar 700P w Clip-3407) and the face SAR measurements (CNEB-Jaguar 700P at Face-3446) and compares them to the peak single point SAR measured for the speaker/microphone with an antenna attached.

The peak single point SAR for the scans were:

Channel	Antenna Type	Speaker/ Microphone Positioning	Highest SAR [W/kg]
WORST CASE BODY RESULT PREVIOUSLY REPORTED			
Low 1	**l/2**	**speaker clip touching phantom**	**6.00**
NEW RESULTS			
Low 1	λ/4	speaker clip touching phantom	3.76
Low 1	λ/2	speaker clip touching phantom	5.28
WORST CASE FACE RESULT PREVIOUSLY REPORTED			
High 1	**l/4**	**speaker face 30mm from phantom**	**1.86**
NEW RESULTS			
High 1	λ/4	speaker face 30mm from phantom	1.52
High 1	λ/2	speaker face 30mm from phantom	0.60

In both cases the previously reported results are the worst case.

> 4. Please identify the size of the proposed RF exposure label and its
> location on the device.

To be responded to by Com-Net Ericsson Critical Radio Systems, Inc.

I trust that the above will answer your inquiries to those items that are in our purview to address. If not, feel free to contact me.

Regards,

Paul G. Cardinal, Ph.D.
Director, Laboratory Operations