Groenlo, 10 July 2009

Declaration on radiation safety standard conformance

To whom it may concern:

N.V. Nederllandsche Apparatenfabriek "Nedap"
Parallelweg 2
7141 DC Groenlo
The Netherlands

declares that the following product

Description   : 8.2 MHz Anti Pilferage System
FCC ID   : CGDFLEUREAS
Manufacturer   : N.V. Nederlandsche Apparatenfabriek "Nedap"|
Brand   : Nedap
Type/model number   : FLEUReas

has a rated RF power of 1.4 µW, which means that the worst case prediction of power density (100% reflection) at 20 cm distance (worst case) can be calculated as follows:

$$S = \frac{EIRP}{4 * \pi * R^2}$$ (power density without reflection)

$$S = \frac{2^2 * EIRP}{4 * \pi * R^2}$$ (power density with 100% reflection)

$$S = \frac{2^2 * EIRP}{4 * \pi * R^2} = \frac{1.4 \mu W}{\pi * (20cm)^2} = 0.001 \text{ mW/cm}^2$$ (Limit = 0.2 mW/cm²)

or calculating the magnetic fieldstrength at 20 cm and comparing with the limit:

Maximum magnetic fieldstrength at 3 meters: 77.5 dB(µV/m) (see Test report 09042004.fcc01_Rev01 page 14 of 19)

Calculating the fieldstrength at 20 cm by using the 40 dB/decade factor:

77.5 + 20 log (300/20)² = 124.5 dB(µV/m) at 20 cm.

This equals {124.5 dB(µV/m) – 51.5 dB = }73 dB(µA/m) = 4.47 mA/m (Limit 1.99 A/m)

NOTE:
Calculating the fieldstrength at 20 cm by using the 60 dB/decade factor: 66 mA/m