

Groenlo, 23 February 2016

Declaration on radiation safety standard conformance

Return address: PO Box 6, 7140 AA Groenlo, The Netherlands

American Certification Body
Certification Department
6731 Whittier Avenue, Suite C110
McLean, Virginia 22101
USA

We, N.V. Nederlandsche Apparatenfabriek "Nedap", declare that the following product:

Description: UHF EPC Gen2 RFID reader operating on 902-928 MHz
FCC ID: CGDUPASSTAR
Manufacturer: N.V. Nederlandsche Apparatenfabriek "Nedap"
Brand: Nedap
Model: UPASS TARGET REGION 2-3

has a maximum rated peak power of 30.0 dBm which equals 1 W. With an antenna gain of 6 dBi (3.98 x) this results in 3980 mW peak in the frequency range of 902 – 928 MHz. meaning the power density at 20 cm distance can be calculated as follows :

$$S = \frac{P_{\text{peak}}}{4 \cdot \pi \cdot R^2} \quad (\text{power density})$$

$$P_{\text{peak}} = 3980 \text{ mW}$$

$$S = \frac{P_{\text{peak}}}{4 \cdot \pi \cdot R^2} = \frac{3980}{4 \cdot \pi \cdot (20\text{cm})^2} = 0.79 \text{ mW/cm}^2 \quad \text{The limit is } 1.0 \text{ mW/cm}^2$$

This means that according to OET Bulletin 65 (Edition 97-01), Supplement C (Edition 01-01), the equipment fulfills the requirements on power density for general population/uncontrolled exposure and therefore fulfills the requirements of 47 CFR Part 15.247 (b)(5).

N.V. Nederlandsche Apparatenfabriek "Nedap"



Jacques Hulshof
Approbation Officer

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