Maximum Public Exposure to RF (MPE) CFR 1.1310

The maximum exposure level to the public from the RF power of the EUT shall not exceed a power density, **S**, of 1 mW/cm^2 at a distance, d, of 20 cm from the EUT.

Therefore, for:

Highest Gain Antenna= -15 dBi

Peak Power (Watts) = 2.8 dBm = 0.002 W
Gain of Transmit Antenna = -15 dB_i = 0.03, numeric (EUT uses an external Loop antenna)
d = Distance = 20 cm = 0.2 m

S = (PG/ $4\pi d^2$) = EIRP/4A = 0.002*(0.03)/4*π*0.2*0.2
= 0.00006/0.5030 = 0.00012 W/m^2
= (W/m^2) (1m^2/W) (0.1 mW/cm^2)
= 0.0000012 mW/cm^2

which is << less than 1.0 mW/cm^2