

Maximum Permissible Exposure (MPE)

Statement of Compliance

Product Model: **AWE 120-58**
Product Part Number: **9210-0060-01**

Peak Transmitter Output Power: **126mW (21dBm)**
Center Channel Frequency Range: **5741.0-5833.8MHz**

Transmitter Type Classification: Portable X Mobile
(Mobile apparatus defined as being at least
20cm away from human body)

Equipment Exemption: Yes X No
(Mobile above 1.5GHz < 3W ERP)

Power Density Calculation for Large Antenna General Public RF Exposure:

Max. Antenna Gain: **37.5dBi, 1.85m Dish**

Far-Field (Large Antenna, $0.6D^2/ \lambda$): $W = P_T G / 4 \pi r^2$
 $= (126mW)(5623)/4 \pi (39.7m)^2$
 $= 0.036W/m^2 @ 39.7m$

Antenna Surface (Large Antenna): $W = 4P_T/A$
 $= 4(126mW)/ \pi (1.85m/2)^2$
 $= 0.188W/m^2$

47 CFR §1.1310 General Public/Uncontrolled Exposure Limit (1.5-100GHz): 1mW/cm²
(10W/m²)

The aforementioned equipment and antenna has been evaluated and found to comply with the MPE limits, as specified in 47 CFR §1.1310 for the general public and uncontrolled conditions, using the guidelines found in FCC OET Bulletin 65.

Eric Godberson – Technical Advisor, Regulatory
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