Electric / Gas / Water
Information collection, analysis and application

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RF Exposure Information

Model: HHSR
FCC ID: EO9HHSR
IC ID: 864A-HHSR

General Information

Applicant: Itron, Inc.
Device Category: Mobile
Environment: General / Uncontrolled Exposure

Technical Information

Antenna Type: Omni
Antenna Gain: 2 dBi
Transmitter Conducted Power: 159.6 mW
Frequency: 915 MHz
Exposure Conditions: 20 centimeters
Limit: $f / 1500$ = 0.61 mW/cm^2

MPE Calculation

Power Density: P_d = (mW/cm^2) = (PxG)/ $4\pi r^2$
P = 159.6 mW
G = 2 dBi = 1.59

~~Solving for r: The minimum safe distance to meet the limit is 5.75 cm, which is less than the minimum 20cm allowed for MPE calculations.~~At 20cm, the MPE is calculated as 0.05 mW/cm^2, which is less than the 0,61mW/cm^2 limit.

Use Guidelines

The installation manual contains the following text about compliance with the FCC RF exposure requirements:
RF EXPOSURE
To comply with FCC requirements, maintain a separation distance of at least 20 cm between the antenna and all persons.

Conclusion

When operated per the manufacturer's instructions, this device complies with the MPE requirements by providing adequate separation between the radiating structure of the device and the general / uncontrolled population.