RF EXPOSURE STATEMENT

1. LIMITS

According to §1.1310 and §2.1091 RF exposure is calculated.

(B) Limits for General Population/Uncontrolled Exposures

| Frequency range (MHz) | Electric field Strength (V/m) | Magnetic field Strength (A/m) | Power density (mW/cm²) | Averaging time (minutes) |
|-----------------------|----------------------------------|----------------------------------|----------------------------------------------|----------------------------------|
| 0.3 1.34 | 614 824/f 27.5 | 1.63 2.19/f 0.073 | *(100) *(180/ f²) 0.2 f/1500 1.0 | 30 30 30 30 30 30 |

F = frequency in MHz

2. MAXIMUM PERMISSIBLE EXPOSURE Prediction

Prediction of MPE limit at a given distance

$S = PG/4\pi R^2$

S = Power density

P = power input to antenna

G = power gain of the antenna in the direction of interest relative to an isotropic radiator

R = distance to the center of radiation of the antenna

^{* =} Plane-wave equivalent power density

2-1 Limit (CDMA & EVDO)

| | 1 | 1 |
|-------------------------------------------------------------|-----------|--------------------|
| Max Peak output Power at antenna input terminal | 44.029 | dBm |
| Max Peak output Power at antenna input terminal | 25287.157 | mW |
| Prediction distance | 500.000 | cm |
| Prediction frequency | 869.750 | MHz |
| Antenna Gain(typical) | 17.000 | dBi |
| Antenna Gain(numeric) | 50.119 | - |
| Power density at prediction frequency(S) | 0.40341 | mW/cm ² |
| MPE limit for uncontrolled exposure at prediction frequency | 0.580 | mW/cm ² |

2-2 Limit (WCDMA)

| Max Peak output Power at antenna input terminal | 44.020 | dBm |
|-------------------------------------------------------------|-----------|--------------------|
| Max Peak output Power at antenna input terminal | 25234.982 | mW |
| Prediction distance | 500.000 | cm |
| Prediction frequency | 871.400 | MHz |
| Antenna Gain(typical) | 17.000 | dBi |
| Antenna Gain(numeric) | 50.119 | - |
| Power density at prediction frequency(S) | 0.40258 | mW/cm ² |
| MPE limit for uncontrolled exposure at prediction frequency | 0.581 | mW/cm ² |

2-3 Limit (GSM &EDGE)

| 2 D Elimit (ODIVI COLL CL) | | |
|-------------------------------------------------------------|-----------|--------------------|
| Max Peak output Power at antenna input terminal | 44.090 | dBm |
| Max Peak output Power at antenna input terminal | 25645.018 | mW |
| Prediction distance | 500.000 | cm |
| Prediction frequency | 881.400 | MHz |
| Antenna Gain(typical) | 17.000 | dBi |
| Antenna Gain(numeric) | 50.119 | - |
| Power density at prediction frequency(S) | 0.40912 | mW/cm ² |
| MPE limit for uncontrolled exposure at prediction frequency | 0.588 | mW/cm ² |

2-4 Limit (LTE 5MHz)

| Max Peak output Power at antenna input terminal | 43.999 | dBm |
|-------------------------------------------------------------|-----------|--------------------|
| Max Peak output Power at antenna input terminal | 25113.023 | mW |
| Prediction distance | 500.000 | cm |
| Prediction frequency | 871.500 | MHz |
| Antenna Gain(typical) | 17.000 | dBi |
| Antenna Gain(numeric) | 50.119 | - |
| Power density at prediction frequency(S) | 0.40064 | mW/cm ² |
| MPE limit for uncontrolled exposure at prediction frequency | 0.581 | mW/cm ² |

3. RESULTS

The power density level at 500 cm is 0.0341 mW/cm², which is below the uncontrolled exposure limit of 0.580 mW/cm² at CDMA& EVDO

The power density level at 500 cm is 0.40258 mW/cm^2 , which is below the uncontrolled exposure limit of 0.581 mW/cm^2 at WCDMA

The power density level at 500 cm is 0.40912 mW/cm^2 , which is below the uncontrolled exposure limit of 0.588 mW/cm^2 at GSM & EDGE

The power density level at 500 cm is 0.40064 mW/cm^2 , which is below the uncontrolled exposure limit of 0.581 mW/cm^2 at LTE

Note: ""RF exposure will be addressed at time of installation and the use of higher gain antennas may require larger separation distances."