RF Safety Exhibit

Revision: 02   Date: 4 November 2005

Equipment: CommScope Airbridge Access Point, model AP5800

FCC ID: TOU-AIRBRIDGE-AP

The maximum safe distance from the antenna at which MPE is met or exceeded is calculated from the equation relating field strength in V/m, transmit power in Watts, transmit antenna gain, and separation distance in meters.

Basis of calculations:

Prediction of MPE limit at a given distance:

Equation from page 18 of OET Bulletin 65, Edition 97-01:

$$S = \frac{PG}{4\pi R^2}$$

where: S = power density (mW/cm^2)
P = power input to the antenna (mW)
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 (cm)

Maximum average output power at antenna input terminal:	16.0	(dBm)
Maximum average output power at antenna input terminal:	39.81	(mW)
Antenna gain (typical):	14	(dBi)
Maximum antenna gain:	25.1	(numeric)
Prediction distance:	20	(cm)
Prediction frequency:	5799-5823	(MHz)
MPE limit for uncontrolled exposure at prediction frequency:	1	(mW/cm^2)
Power density at prediction frequency:	0.199	(mW/cm^2)
Maximum allowable antenna gain:	21.0	(dBi)
Margin of Compliance at 20cm =	7.0	(dB)

Installation Requirements:

The AP5800 is supplied with an integrated antenna. Installation of the AP5800 is described in the user manual, which is supplied with each AP5800.

The following statement is included in the user manual, see "Information to User" section on page 4 of "INSTALLATION AND OPERATION MANUAL":

WARNING:
In order to comply with the FCC radio frequency exposure limits of Part 1.1310, this equipment must be installed in such a way as to provide a minimum separation distance of 2 ft. from the transmitting antenna to persons nearby.