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IDENTIFICATION OF THE EQUIPMENT UNDER TEST (EUT)

NAME AND ADDRESS OF APPLICANT:

Comtek Communications Technology, Inc.
357 W. 2700 South
Salt Lake City, UTAH 84115

MANUFACTURER:

Applicant

FCC ID:	C6ZBST25-216
MODEL NO:	BST-25
DESCRIPTION:	VHF Low Power Communications Transmitter
TYPE OF EMISSION:	16K0F3E
FREQUENCY RANGE, MHz:	216 to 217
POWER RATING, Watts:	0.100

___ Switchable ___ Variable _x_ N/A

MODULATION:

____ AMPS
____ TDMA
____ CDMA
_x_ FM

ANTENNA:

____ HELICAL
_x_ MONOPOLE
____ INTEGRAL

NOTE: For RF Safety test antenna gain taken at the upper range of expected gain (i.e. 0 dBi ± 1dB = + 1 dBi) and RF Power set nominal (i.e. 0.100 W across all channels).

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Name of test: Environmental Assessment

EUT Description: See Page 2.
Power, Conducted [W] = 0.1
Test Frequency, MHz = 216.510
Ant. Model Screw in Whip Antenna
Ant. Gain[dB] = 0 db or less

Rated Probe: Narda 8761D Probe = 10 μW/cm^2 to 20 mW/cm^2

47 CFR 1.1210 Table 1, (B)

0.3-1.234 MHz:	Limit [mW/cm^2]	= 100
1.34-300 MHz:	Limit [mW/cm^2]	= (180/f^2)
30-300 MHz:	Limit [mW/cm^2]	= 0.2
300-1500 MHz	Limit [mW/cm^2]	= f/1500
1500-100,000 MHz:	Limit [mW/cm^2]	= 1.0

Power[W EIRP] = ($P_{[Watts,Conducted]}$ + G) = 0.10 W
Limit [mW/cm^2] = 0.2
Limit [W/m^2] = 2.0
Theoretical safe distance: $R_{[m]} = [(P_{[W\ EIRP]}) / (4\pi \times Limit_{[W/m^2]})]^{1/2}$
$R_{[m]}$ = 0.007
$R_{[inches]}$ = 2.8
Measurement Distance = 10 cm

Results: at tested distance

Probe Height, m	Power Density, mW/cm^2
2.0	0.02
1.8	0.02
1.6	0.07
1.4	0.10
1.2	0.18
1.0	0.17
0.8	0.04
0.6	0.02
0.4	0.01
0.2	0.01

Calculations: The measured power density readings were summed and the results divided by the number of readings to calculate the average.
For whole body: Average of 0.2 to 2.0 m, mW/cm^2 = 0.087
For lower body: Average of 0.2 to 0.8 m, mW/cm^2 = 0.020
For upper body: Average of 1.0 to 2.0 m, mW/cm^2 = 0.132

SUPERVISED BY: Morton Flom, P. Eng.

Addendum AMENDED September 18, 2000:

(THE FOLLOWING WILL BE PLACED IN INSTRUCTION MANUAL)

INSTRUCTIONS TO INSTALLERS & USERS

Minimum Safe Distance: 20 cm (2.8 in.)

Antenna Mounting

Antenna as supplied by manufacturer must not be mounted at a location such that any person or persons can come closer than the above-indicated minimum safe distance to the antenna...i.e. 20 cm (2.8 in.)

To comply with FCC RF Exposure Limits, antenna must be installed @ or exceeding minimum safe distance shown above.

Antenna Substitution

Do not substitute any antenna for the one supplied by manufacturer. You may be exposing person(s) to harmful radiation. Contact supplier or manufacturer for further instructions.

WARNING:

MAINTAIN SEPARATION DISTANCE FROM ANTENNA OF 20 cm.