

EXHIBIT 2

**INSTALLATION AND INSTRUCTION MANUAL  
INCLUDING HUMAN EXPOSURE STATEMENT**

As required by § 2.1033(c)(3), provided in this exhibit is a copy of the draft version of the "Redhawk User's Guide and Technical Manual" which describes DTSA features, installation, and operation. The "Redhawk" is a family of wireless (GSM) modem products, of which the DTSA is the first offering, as well as the core module on which all other products are based. As described in the product manual, the "Redhawk" product line currently consists of the following models:

- RED20001991 DTSA      OEM version of a GSM modem implemented on a single PCB; the subject of this filing (FCC ID: **RED20001991**)
- RED20001990 DTM      DTSA supplied with optional plastic housing. No physical, functional or performance differences from, and electrically identical to, the DTSA. FCC labeling and identification of the DTM is the same as that for the DTSA as described in this filing.
- RED20011990 DTU      DTSA housed in an environmental (Hoffman) enclosure with internal AC/DC power supply and optional internal patch antenna. Will be authorized through a separate filing.

Also provided, on page 3 of this exhibit, is a statement that will be included in the aforementioned manual addressing human exposure to radiofrequency radiation. This information is necessary to ensure that equipment installers, operators and users are made aware of the dangers of exposure to radiofrequency radiation and that the DTSA is installed and operated in compliance with 47 CFR Part 24, Subpart E of the FCC Rules and Regulations. Pursuant to § 24.52 RF hazards, all emissions from the DTSA, both fundamental and unwanted, are subject to the radiofrequency radiation exposure requirements given in § 1.1307(b), § 2.1091 and § 2.1093, as appropriate.

For fixed transmitters, § 1.1307(b) requires the preparation of an Environmental Assessment (EA) if the transmitter would cause human exposure to levels of radiofrequency radiation in excess of the applicable limits given in § 1.1310. However, determination of compliance with these limits and preparation of an EA if they are exceeded is required only for licensed PCS facilities, operations and transmitters with the following characteristics:

1. non-building-mounted antennas: height above ground level to lowest point of antenna < 10m and total power of all channels > 2000 W ERP (3280 W EIRP)
2. building-mounted antennas: total power of all channels > 2000 W (3280 W EIRP)

"Fixed" in this context means that the device is physically secured at one location and is not able to be easily moved to another location. Since the DTSA transmits on a single channel with a maximum peak output power of 1.0 W (30 dBm) nominal, the maximum specified antenna gain of 7 dBi results in a maximum peak e.i.r.p. of 37 dBm (5.0 W), well below the level which would trigger a routine environmental evaluation. Therefore, in fixed applications, the DTSA is categorically excluded from performance of a routine environmental evaluation or preparation of an EA.

In § 2.1091(b), a mobile device is defined as a transmitting device designed to be used in other than fixed locations and to generally be used in such a way that a separation distance of at least 20 centimeters is normally maintained between the transmitter's antenna and the body of the user or nearby persons. In accordance with § 2.1091(c), mobile PCS devices are categorically excluded from routine environmental evaluation for RF exposure prior to equipment authorization or use if their e.i.r.p. is less than 3 W (34.8 dBm).

The DTSA installation and operation manual requires a separation distance of at least 20 cm between the unit's antenna and the body of the user and nearby persons for all uses and applications, both mobile and fixed. Furthermore, for mobile applications, the maximum e.i.r.p. will not exceed 2 W (33 dBm), in accordance with the requirements of § 24.232(b). Therefore, for mobile applications, the DTSA is categorically excluded from a routine environmental evaluation for RF exposure.

Finally, the DTSA is not designed for or intended to be used in portable applications (within 20 cm of the body of the user) and the installation and operation manual contains specific language prohibiting such uses.

In all applications and uses, compliance with current FCC RF regulations limiting human exposure to radiofrequency exposure is dependent upon installation, operation and use of the equipment in accordance with all instructions provided.

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## HUMAN EXPOSURE COMPLIANCE STATEMENT

The following statement addressing human exposure to the RF energy emitted by the DTSA is included in the "Redhawk User's Guide and Technical Manual."

Pursuant to 47 CFR § 24.52 of the FCC Rules and Regulations, personal communications services (PCS) equipment is subject to the radiofrequency radiation exposure requirements specified in § 1.1307(b), § 2.1091 and § 2.1093, as appropriate.

Omnipoint Technologies, Inc. certifies that it has determined that the DTSA complies with the RF hazard requirements applicable to broadband PCS equipment operating under the authority of 47 CFR Part 24, Subpart E of the FCC Rules and Regulations. This determination is dependent upon installation, operation and use of the equipment in accordance with all instructions provided.

The DTSA is designed for and intended to be used in fixed and mobile applications. "Fixed" means that the device is physically secured at one location and is not able to be easily moved to another location. "Mobile" means that the device is designed to be used in other than fixed locations and generally in such a way that a separation distance of at least 20 cm is normally maintained between the transmitter's antenna and the body of the user or nearby persons. The DTSA is not designed for or intended to be used in portable applications (within 20 cm of the body of the user) and such uses are strictly prohibited.

To ensure that the DTSA complies with current FCC regulations limiting both maximum RF output power and human exposure to radiofrequency radiation, a separation distance of at least 20 cm must be maintained between the unit's antenna and the body of the user and any nearby persons at all times and in all applications and uses. Additionally, in mobile applications, maximum antenna gain must not exceed 3 dBi.

Note: the "Redhawk User's Guide and Technical Manual" is attached below in a self extracting (.EXE) ZIP format. Double click on the icon to start the self-extraction process. Select a directory in which to save the manual, and then click the "unzip" box to complete the process. When extracted, the manual is in MS Word 97 format. CAUTION: the uncompressed manual is very large (approximately 28 MB).



RED20001991MANUAL.exe