

RF exposure instructions

Pursuant to Title 47 CFR Part 2 of the FCC Rules and Regulations, this equipment is subject to the radio frequency radiation exposure requirements specified in Section 2.1091 or 2.1093, as appropriate. The EADS repeater is intended to be located such that it will relay messages from a mobile unit located in an area that would otherwise be unserved due to lack of coverage by the base station.

EADS certifies that it has determined that the configuration meets the RF hazard requirements applicable to this equipment, as specified in Section 1.1310, operating under the authority of 47 CFR Part 90 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 EADS system is defined by the FCC Rules as a mobile device which according to FCC definitions 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 (8 inches) is normally maintained between the transmitter's antenna and the body of the user or nearby persons. It is designed for use by knowledgeable individuals in an occupational/controlled environment. Pursuant to Section 1.1310, the applicable MPE limit is $f/300$ or 1.46 mW/cm^2 . The following calculations show the determination of compliance with the FCC Rules.

The power output of the unit is 19.3 watts. The manufacturer specifies an omnidirectional rod antenna shall be used with 0 dBi gain.

MPE calculated energy level: Using 19.3 Watts EIRP, 33 cm separation distance, the calculated power density computed by dividing the EIRP by the surface area of a sphere of 33 cm radius is 1.41 mW/cm^2 . This level is below the compliance level for occupational controlled exposure requirements. The unit is provided with a 7.5 meter antenna cable and is provided with instructions to locate the antenna such that at least 33 cm separation distance will be maintained by any individuals that may be in the vicinity of the repeater.

Based on the above, EADS certifies that the FCC requirements for mobile MPE limits for RF Exposure are met by their product.