

APPENDIX A: RF EXPOSURE

FCC Rules and Regulations Part 1.1307, 1.1310, 2.1091, 2.1093:

THIS DEVICE IS CATEGORICALLY EXCLUDED FROM RF EXPOSURE EVALUATION PER THE TCB EXCLUSION LIST DATED 17 JULY 2002.

The worst case EIRP was 4.4 W at 150 MHz. Plugging this value into the occupation low threshold equation from the bottom of the TCB exclusion list gives the following:

$$900/f(\text{GHz}) = 900 / 0.150 = 6,000 \text{ mW} = 6 \text{ W}.$$

Additionally, the EIRP was 1.4 W at 174 MHz. Plugging this value into the occupation low threshold equation from the bottom of the TCB exclusion list gives the following:

$$900/f(\text{GHz}) = 900 / 0.174 = 5,172 \text{ mW} = 5.2 \text{ W}.$$

The power from this radio is below the low threshold. Additionally, this is a PTT radio with a maximum duty cycle of 50%, which would make the margin even greater between the power seen in actual use and the low threshold.