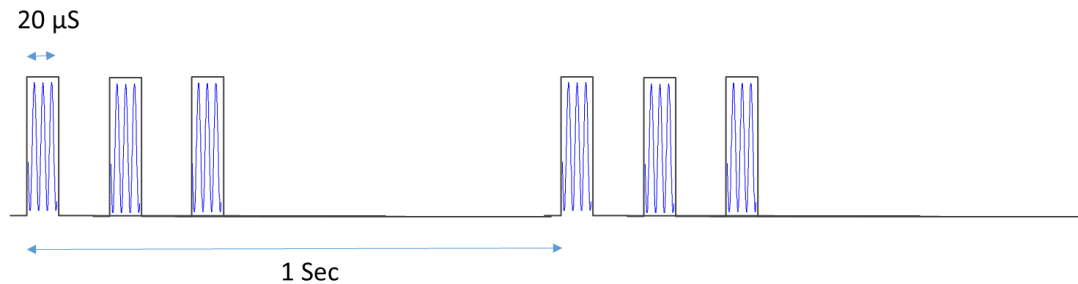


Device and transmit signal description:

We would like to obtain a license to operate a new device we have developed at MIT. The device operates at 915 MHz band. The device transmits a sine wave (carrier signal) at 915MHz for period of $3 \times 20\mu\text{s}$ every 1 second. In another word, the device is transmitting three times for $20\mu\text{s}$ and it is silent for the rest of one second.



Location description:

2-6 devices will be placed on light poles in Vassar Street, Cambridge, MIT.

Antenna description:

Omni directional or directional patch antennas will be used where the direction of beam will be toward the road.

Peak and Average Power:

FCC part 90, subpart M:

- The device transmits a 30W peak ERP during the $20\mu\text{s}$.
- The average ERP will be 1.8mW (i.e. $30\text{W} \times 60\mu\text{s} / 1\text{s} = 1800\mu\text{W} = 1.8\text{mW}$).