

From: Jesse Luhrs

To: Behnam Ghaffari

Date: November 16, 2015

Subject: FCC File No. 0682-EX-PL-2015

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Message:

The Fire Department for the City of Mukilteo has had upgraded software introduced by Snohomish County Communication, which handles the 911 calls and dispatches within the county. This new software uses GPS software that gives the county and the city an accurate reading on where the units are located at any given time, to better coordinate dispatches based of location. Also, the GPS will enable the units to find precise routes and find other units in the area during an emergency.

The problem that the Fire Department is currently having involves the signal strength from the Global Positioning Satellites inside the vehicle bay. The building is preventing the signal from reaching the antennas currently mounted on the vehicles. When the GPS signal cannot be reached on the antenna, the vehicles location inside the Fire Department cannot be seen. While this is happening, the software will give the last known coordinate, then stop calling for GPS. After the antenna and software no longer call for GPS, the only way to resync the equipment and software is to pull the vehicle out of the Fire Department bay and turn all the communication equipment off and reboot the software. When this happens, it can slow down calls and potentially put lives in jeopardy. A GPS antenna/repeater must be installed in order for the Fire Department to run at maximum capabilities.

Mukilteo Fire Department is requesting an Experimental license to begin installation for a GPS repeater inside the vehicle bay. The antenna will be mounted on the outside of the building on the south side roof. This will give us an angle to receive our maximum count of satellites. From there, the cable will run directly under the roof into the vehicle bay at which the repeater will be installed toward the ceiling on the inside wall.

The purpose of the license is to prevent lag in response time for the our firefighters and paramedics.