

ATTACHMENT – Project Description

a. A description of the nature of the research project being conducted.

A set of test vehicles are outfitted for perception data collection on public roads. These vehicles need to be carefully calibrated before driving for data collection. The calibration station will be located indoors. One step in that calibration process is GPS localization of the vehicle, which dependent on strong GPS signals. The calibration method mimics one already developed and used in Sweden - where the use of a GPS repeater is proven essential for calibrating vehicle localization indoors.

b. A showing that the communications facilities requested are necessary for the research project involved.

The calibration method mimics one already developed and used in a different location in USA and in Sweden, where the use of a GPS repeater is proven essential for calibrating vehicle localization indoors.

c. A showing that existing communications facilities are inadequate.

From previous experience in other types of testing "dependent on gps communication, we know the facility in question is inadequate. In our previous test (not involving this calibration station) we have been able to move outside the facility to solve the issue. Now, for this purpose, we will not because the calibration station is fixed.