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

PACCAR Inc is a worldwide manufacturer of medium and heavy duty trucks. We currently install GPS based navigation systems in our trucks that enable drivers to determine their location on the road and receive turn by turn directions to their destination.

PACCAR wishes to utilize a GPS reradiating antenna inside our four factories in the United States and our Information Technology Division to validate and troubleshoot installation of the navigation systems before the cab interior is installed. Currently the GSP signal can only be validated once the vehicle is taken outside the factory walls. This is only possible once the vehicle is completely assembled. Any issues found with the installation at this point may require disassembly of the interior of the truck.

Two identical antennas will be required at each location to ensure coverage of the installation areas.

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

Having the ability to validate the installation before the completed vehicle is taken outside the factory walls will improve quality of the installation and eliminate costly and timely rework of a completed vehicle.

c. A showing that existing communications facilities are inadequate.

Currently the GSP signal can only be validated once the vehicle is taken outside the factory walls.