Statement of Request

Research Project- Oshkosh Corporation is seeking 4 frequencies to test (Low) and (High) frequency of all Radios. To be used to integrate the use of C3 equipment on Vehicles being built to Support Land 998. The equipment OEM is to be consulted for best installation and performance.

Estimated Time - October 8, 2015 through February 8, 2015. Test time is two twelve hour periods.

Purpose of Experiment- To test the location of antennas. Exposure to crew members, (RADHAZ) levels should not exceed the ARPANSA RPS3 Radiation protection standard. While occupying a designating seating location as well as when the crew members are outside of vehicle.

RADHAZ Measurement

The Vehicle will run at idle and place the broad band field meter on the vehicle's seat. Run the vehicle at idle and sweep each transmitter, one at a time, through their normal operating frequency range. The two, whip antennas on the top of the cab have the ability to be tied-down to the front upper corners of the vehicle and standing vertically, ensure all radiation hazard scans are tested with both tied-down and both vertical.

Sweep each transmitter through their normally operating frequency for each seated position in the vehicles cab. After each seated position has been completed, position the broad band field meter in the position similar to that of a user operating the manual roof turret. This approximate location is shown in Figure 1.

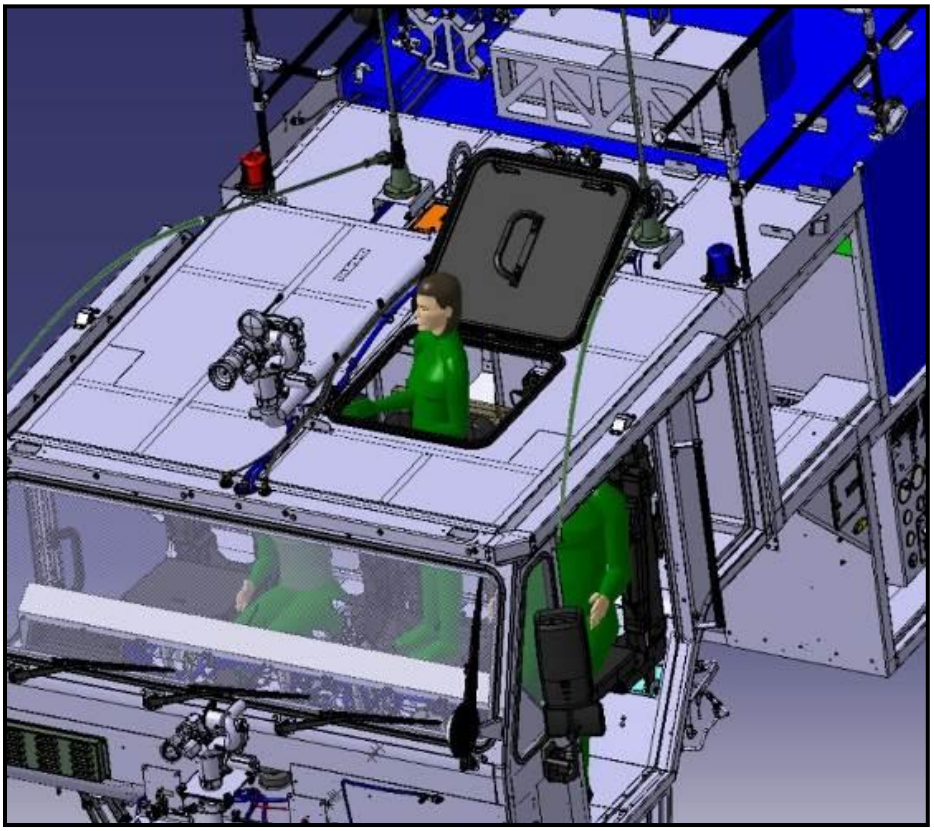

Figure 1 - Roof Turret Manual Operation Location

Sweep the transmitter with the broad band meter located in the approximate position of an operator servicing the dry chemical system, shown in Figure 2.

Statement of Request

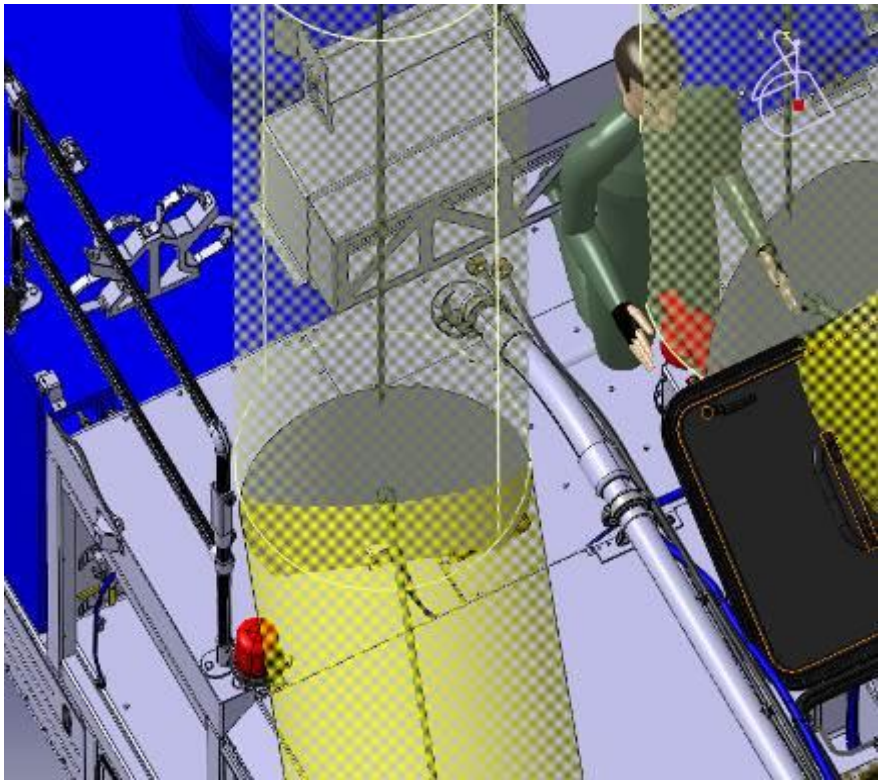

Figure 2 - Dry Chemical Service Position

Each antenna used for the LAND998 has been analyzed and verified through previous testing on other vehicle platforms for an approximate radiation hazard radius. Each antenna's specification and approximate radiation hazard radius are shown in Table 1.

Table 1 - Antenna Specifications

System	Frequency	Power	OEM Specifications	Comparable system	Radiation hazard radius
Harris 152 (VHF)	30 to 89.999 MHz	50 W PEP		SINGARS	37 cm
Harris 152 (UHF)	90 to 511.99 MHz	20 W PEP		AN/VRC114(V)	26 cm
Motorola APX6500	403 to 437 MHz	20 W PEP	60 cm @39 Watts, (General public requirement only)	SINGARS	26 cm
ICOM IC-A110	118 to 136.975 MHz	36 W PEP	36 cm General public requirement only	AN/VRC114(V)	37 cm

Statement of Request

If you have any questions or need me to make corrections, I am an amateur when it comes to the level of knowledge required for this. Any help would be greatly appreciated.
Thank you,

Contact Information :

Erma Salazar

325-245-8929

920-522-2250

920-235-9151 EXT 25396

Esalazar@Oshkoshcorp.com