

Jose Trevino

From: Van Wazer, Thomas P. [tvanwazer@sidley.com]
Sent: Thursday, March 20, 2008 12:55 PM
To: Jose Trevino
Subject: RE: Caterpillar's Experimental Applications

Mr. Trevino,

I will check with the Caterpillar technical personnel responsible for the EMC testing and get back to you as soon as possible.

From: Jose Trevino [mailto:Jose.Trevino@fcc.gov]
Sent: Thursday, March 20, 2008 12:47 PM
To: Van Wazer, Thomas P.
Subject: RE: Caterpillar's Experimental Applications

Dear Mr. Van Wazer;

The Military Assignment Group, (MAG) is requesting additional information in reference to the Caterpillar application 0077-EX-PL-2008 to radiate outside of a shielded facility on 275 MHz, 325 MHz and 375 MHz in Tucson, AZ and Peoria, IL.

The MAG has checked their database to determine the electromagnetic environment (EME) in the band 225-399.9 MHz at the two locations requested.

The frequency band, 225-399.9 MHz, is critical to successful military operations and support of training military forces expected to deploy to combat environments.

(1) Can Caterpillar Inc. ensure that these critical operations are protected from interference?

- The output power of 500 watts into free-space has the MAG greatly concerned as the prediction of interference to critical Military Departments (MILDEP) and FAA operations.

(2) What is the centerline of the antenna from the ground? It also helpful if there is a report of the topology of the area to estimate the propagations.

(3) If the antenna is a log-periodic antenna, will the main lobe always be directed at an inclination of -90 degrees (nadir) with the equipment under test directly beneath it?

(4) The stop buzzer information for Peoria and Tucson is the same; please explain how the stop buzzer can be in two locations?

- The request states that Caterpillar must "... conduct EMC testing on its prototype equipments across a large number of frequencies to ensure both product safety and compliance under different international regulatory schemes, including those of the European Union."

(5) The MAG is requesting that Caterpillar provide specific information and documentation of this regulatory language.

- Since the UHF spectrum comprises much more than the 225-399.9 MHz,

(6) Can Caterpillar request access to frequencies above 399.9 MHz to perform the required testing?

- (7) Has an EMC immunity test been performed outside the UHF band? If so the MAG would like a copy of the report so that it can be reviewed by their engineering section.
- (8) Can Caterpillar explain how the 2K00A3E emission is used when performing "EMC immunity" testing?
- (9) Is this authorization to be used for the purpose of testing equipment manufactured exclusively for export?

Sidley Austin LLP mail server made the following annotations on 03/20/08, 11:50:42:

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