

September 2008

DTB Purchases Largest RS105 Test Facility Available in Any Independent Test Lab

The new simulator will perform **RS105 testing** in accordance with MIL-STD-461 for EMP survivability. The military needs to ensure that critical equipment survives and/or works properly in such circumstances. The test is a Radiated Susceptibility test where a high voltage level pulse, 50 kV, is applied to the test item.

The antenna is very large and requires the testing to be done away from other metal objects, therefore DTB will be using an OATS facility for the testing. All our related equipment is scheduled to arrive within the next few months.

DTB's system has an estimated overall simulator length (including pulse generator) of approximately 13.5 meters. The launch tapered section will be approximately 6.5 meters long, length of parallel plate section will be 3 meters, length of load tapered load section will be approximately 4 meters, and maximum width of the simulator array will be approximately 5.5 meters. The simulator will be installed diagonally over the existing 24 ft x 44 ft DTB ground plane. It is currently the ***largest simulator of its kind by far, in any U.S. non-government test facility.***

This test is applicable to equipment and subsystem enclosures when the equipment or subsystem is located externally to a hardened (shielded) platform or facility. The test is also applicable for equipment intended solely for use on non-metallic platforms. In addition, the requirement is also applicable to Army aircraft for safety critical equipment and subsystems located in an external installation.

For more information on the RS105 test, feel free to call us at [1-800-TEST-456](tel:1-800-TEST-456).