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The purpose of this license is to cover three types of testing for the Navigational Pod. Combining all of these three tests in one year and assuming worst case scenario, the NAVPOD will transmit for a maximum of 48 hours.

Test 1) Testing the Equipment Functionality

Test 2) Ground Testing for Electromagnetic Compatibility and Electromagnetic Interference

Test 3) Air Testing for Electromagnetic Compatibility and Electromagnetic Interference

Test 1) Testing the Equipment Functionality

The transmitting end of the NAVPOD is placed in a portable anechoic chamber. The NAVPOD is connected to the aircraft simulation bench and that ties in to other aircraft simulation benches to simulate flight conditions in the NAVPOD. This simulates the various TFR flying modes and verifies the modes and warning conditions that the aircraft would display in an actual flying scenario. This test is performed to verify warning and safety conditions prior to flight.

A safe distance is maintained by all personnel in a closed facility during this test.

The POD is in Transmit mode for two hours at a time for twice a day while simulating various TFR flying conditions and modes. The POD is transmitted for around 3 days out of the year for a total of 12 hours a year of transmission.

Test 2) Ground Testing for Electromagnetic Compatibility and Electromagnetic Interference

The NAVPOD is tested on the ground for the EMC/EMI Safety of Flight testing to test for electromagnetic compatibility and interference. Successful completion of these tests is required prior to obtaining flight clearance for the POD on the aircraft.

Test 3) Air Testing for Electromagnetic Compatibility and Electromagnetic Interference

EMC/EMI may also run the test in the Air to verify system functionality from a recoverable altitude. The device transmits between 5000 and 500ft starting at 5000 and stepping its way down.

The NAVPOD transmits on average 36 hours out of the year for the purpose of these safety tests and is necessary for accomplishing a total Electromagnetic Compatibility and Interference report.