

Purpose of Experimental STA (File #0414-EX-ST-2010)

The license will be used to emulate the emitters typically seen during flight test, on the ground prior to flight. The signals will stimulate the electronic support measures (ESM) system and ensure the system is correctly processing and displaying the emitter in accordance with our onboard database. The test is for initial checkout of the mission systems. The testing will be performed in daylight hours and is only expected to be performed for 2 days. The six month STA is requested to allow for test schedule slippage.

The test involves personnel walking around the aircraft with a signal generator and horn antenna directed at the aircraft to stimulate ESM sensors mounted on the aircraft skin.

Antenna to be utilized is a broad banded Linear Polarized horn with 8-15DBi of gain. 8bd at 800MHz and 15db at 9.4GHz.