

Experimental Program

Experimental description

As an antenna manufacturer, ViaSat, Inc. designs and produces a variety of antennas supporting a wide variety of frequencies.

The request for Special Temporary Authority ("STA") is in support of a customer requirement to test the S band antenna system over the air.

The test requires communication with two operational satellites Worldview-1, 2, 3 and Worldview-4 which are in a low earth orbit ("LEO").

The antenna system being tested is 7.3 m (24 ft) in diameter, but is located next to nearby buildings and other existing antennas of similar size and larger and does not present a hazard to aircraft. See terrain profile drawing.

The testing is expected to take place between the hours of 1300 to 1500 local time as per the pre-coordination with the local broadcasters. The point of contact for ceasing transmissions in case of interference is Eric Rhoden (1-706-799-2786).

WorldView-1 Parameters:

Perigee: 497 km

Apogee: 504 km

Inclination: 94.49°

Period: 94.49 minutes

WorldView-2 Parameters:

Perigee: 772km

Apogee: 772 km

Inclination: 98.4°

Period: 100.16 minutes

WorldView-3 Parameters:

Perigee: 619 km

Apogee: 622 km

Inclination: 97.97°

Period: 96.68 minutes

WorldView-4 Parameters:

Perigee: 609.95 km

Apogee: 613.28 km

Inclination: 97.98°

Period: 96.93 minutes