

Submitted by Joe Thorsheim on behalf of Aurora Flight Sciences
The Boeing Company
Frequency Management Services
P.O. Box 3707 MC: 2T-22
Seattle, WA 98124-2207
206-544-6066 Office

Why a Special Temporary Authorization is Necessary:

An experimental license is required to operate a StreamCaster 4200/4400 data link to support Flight telemetry, vehicle commands, and video streaming for the Tactical Autonomous Aerial Logistics Systems (TALOS) - (AACUS) ONR program AACUS in the Manassas VA area under contract N00014-12-C-0671.

Operation Description:

The data link consists of a ground station communicating to and from an aircraft. The ground station will uplink to the aircraft and the aircraft will downlink to the ground station.

Tables (1) lists the equipment specifications, including frequency band of operation, transmitter output power, emissions, antenna types and gains, as well as maximum ERP.

Frequency Data	
Transmit Frequency Band	2290 - 2310 MHz 2390 - 2410 MHz 2480 – 2500 MHz
Transmitter Data	
Transmitter Model	StreamCaster 4200/4400
Transmitter Manufacturer	Silvus
Antenna Data	
Antenna Type	Omnidirectional Button (air) Omnidirectional Dipole (ground)
Power Output ERP	16 Watts
Emission Data	
Emission Designator	5M0G1D, 10M0G1D, and 20M0G1D

Table 1 – Equipment Data S-Band

Table (2) lists the location of operations, as well as the station class of the operation.

City	State	Latitude	Longitude	Radius (KM)	Maximum Flight Level	Station Type
The Flying Circus	VA	38-32-58 N	77-42-55 W	30	1,000 Feet AGL	Mobile/Ground

Table 2 – Location Data

Stop Buzzer POC: Stop Buzzer for this operation is Mike Morgan at phone 540-903-2199.