

REQUEST FOR EXPERIMENTAL STA

Pursuant to Sections 5.3(j) and 5.51(a) of the Commission's rules, Joby Aero, Inc. ("Joby") hereby requests Special Temporary Authority ("STA") to operate a new conventional experimental radio service station in the 9300 – 9500 MHz band (X-band) for a period of 180 days. The purpose of this STA is to test the efficacy of experimental radar equipment (hardware and software) that Joby is developing for use in commercial aircraft. This request for STA incorporates, expands and supplants the experimental STA currently authorized under call sign WS9XYS.

Joby develops and manufactures major aircraft components. Joby requests STA to test and evaluate the performance characteristics of airborne and ground mobile radar equipment to detect-and-avoid other aircraft and obstacles, including terrain. Airborne operations will take place at the first six locations listed in the application form; ground mobile operations will take place at the seventh location listed in the application. The equipment will operate in frequency-modulated continuous wave mode for a maximum duration of sixty seconds per transmission. Aircraft using the equipment will operate during daylight hours, any day of the week. Flight tests typically will be one hour in duration and will utilize the frequencies in the areas specified in the foregoing application form up to a maximum altitude of 1500 feet above ground level. Airborne test equipment will be operated only in one aircraft at a time for each location, though multiple aircraft may operate the equipment on any given day.

Joby further requests that the FCC expressly exempt the proposed station from the station identification requirements set forth in Section 5.115 of the Commission's rules.¹ This rule section provides that licensees may be exempted from these requirements if so specified by the terms of their station authorization. Because the subject equipment is not capable of transmitting station identification information in the mode required, Joby respectfully requests that any authorization issued for the proposed station include a condition expressly exempting the station from Section 5.115 of the Commission's rules.

Joby understands that its proposed use will be on a non-interference basis. Prior to operating, Joby will monitor the band to determine whether the band is available for use. In the event it determines that its operations may be causing interference to another user, it will suspend transmissions. The stop buzzer contact for the proposed operations is:

Simon Scott
Joby Aero, Inc.
(510) 501-2116

The STA will aid Joby in the testing and development of new radar technology of potential future benefit to the public. Accordingly, FCC approval of this request will serve the public interest, convenience and necessity.

¹ 47 C.F.R. § 5.115