GENERAL ATOMICS
AERONAUTICAL

July 1, 2021

Experimentation Description

Purpose and duration of the license. STA requested to obtain permission to use both fixed and mobile emitters that will facilitate testing of S-band radar equipment aboard General Atomics MQ-9A/B unmanned aerial system (UAS). Ground and flight tests involving the S-band radar will originate at El Mirage, CA. Area of flight during this development is the locally approved airspace in the vicinity of El Mirage, CA at a maximum altitude of 12,500 feet MSL. Requested length of time required to complete testing is 24 months.

Make and model of transmitter & transmitting antenna. QUASONIX QSX-VSR-110-10S

Geographical coordinates of transmission. 45 km radius with a center at El Mirage (N 34 deg 37 min 30 sec, W 117 deg 36 min 18 sec) at a maximum altitude of 13,000 feet mean sea level. The UAS will originate and land at El Mirage and remain within the confines of a 45km radius. GA-ASI has previous approval from the FAA to operate company-owned aircraft within this airspace.

Desired frequency and associated emissions. 2200-2400 MHz, with a mean power out of 10 watts and the emission designator 4M80G1D.