

Map Depiction and Description

NASA DFRC Ikhana Local Area UAS COA Application Attachment

NASA Dryden Flight Research Center (DFRC) has procured from General Atomics – Aeronautical Systems Incorporated, an MQ-9 Reaper aircraft and a Ground Control Station (GCS). DFRC has assigned the number “NASA 870” to the aircraft and renamed it “Ikhana” (pronounced ee-kah-nah, a Native American word from the Choctaw Nation meaning intelligent, conscious, or aware).

1. Operational Area/Local Area boundary coordinates

The Local Area boundary coordinates follow. The Local Area boundary is depicted in Figure 1: Operational Area/Local Area Boundary below.

Beginning at:

lat. $34^{\circ}29'47''$ N, long. $117^{\circ}45'23''$ W, to
 lat. $34^{\circ}37'41''$ N, long. $117^{\circ}45'23''$ W, to
 lat. $34^{\circ}46'21''$ N, long. $117^{\circ}42'00''$ W, to
 lat. $34^{\circ}46'30''$ N, long. $117^{\circ}35'03''$ W, to
 lat. $34^{\circ}49'30''$ N, long. $117^{\circ}26'03''$ W, to
 lat. $34^{\circ}51'17''$ N, long. $117^{\circ}26'03''$ W, to
 lat. $34^{\circ}54'50''$ N, long. $117^{\circ}03'30''$ W, to
 lat. $34^{\circ}35'22''$ N, long. $117^{\circ}01'38''$ W, to
 lat. $34^{\circ}29'50''$ N, long. $117^{\circ}29'25''$ W
 thence to the point of beginning.

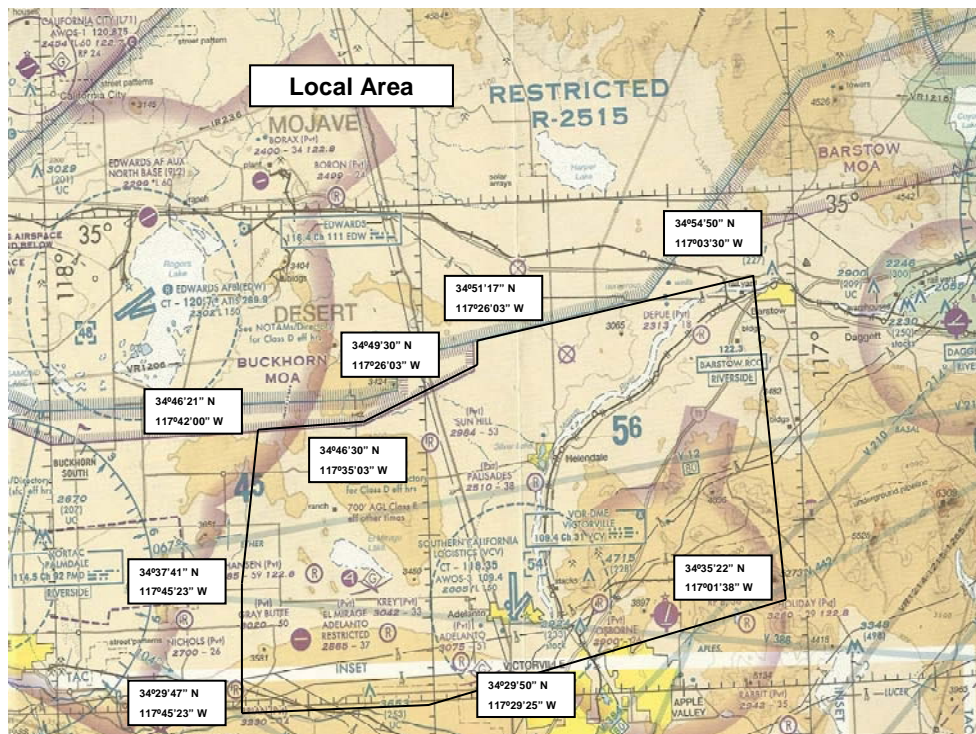


Figure 1: Operational Area/Local Area Boundary

2. Ferry Flight Routing

Ferry flights between R-2508/R-2515 and Gray Butte Field or El Mirage Airports will use the most direct route possible entering and exiting restricted airspace below 13,000 feet MSL. Notional ferry flight routing is depicted in Figure 2: Notional Ferry Flight Routing below.

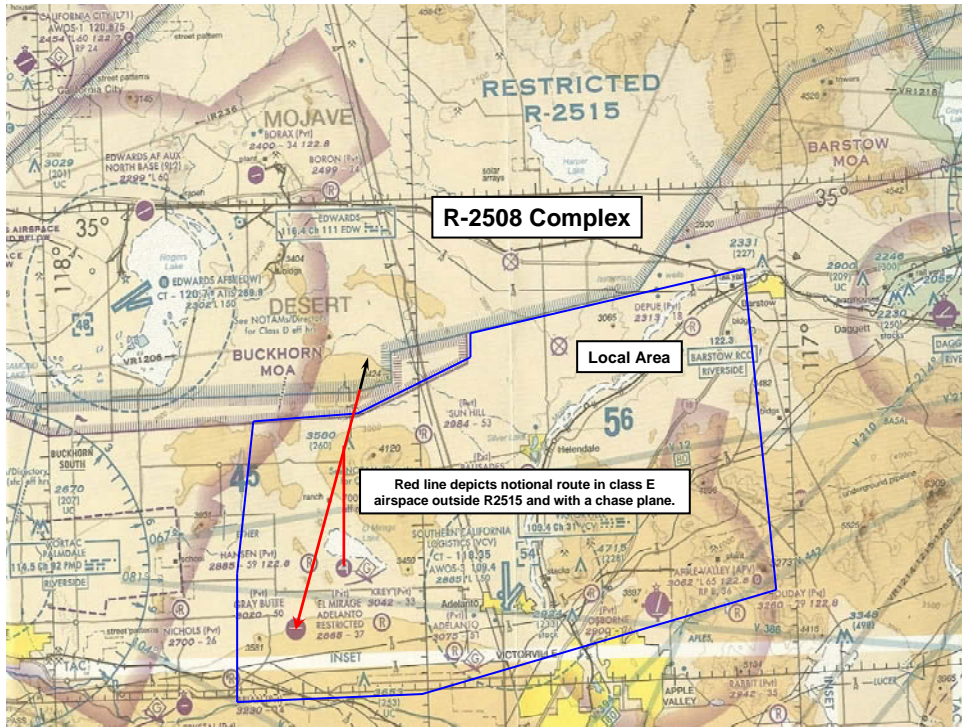


Figure 2: Notional Ferry Flight Routing

3. Maintenance Check Flights

Maintenance check flights will be conducted within the Local Area boundaries. Population Keep Out Zones and Victorville Airport (KVCV) class D airspace will be avoided. Reference attachment NASA Ikhana 2008 Local Area – Keep Out Zone Coordinates and Dimensions.