

Xwing Agile Flag SOCL Exhibit

Xwing Manufactures FBW Control Systems and Detect and Avoid HW/SW for fully autonomous cargo aircraft (C-208B). As Xwing continues its development of unmanned aircraft technology, the flight test program is expanding to include military applications. Xwing's flight test vehicle will participate in a large force exercise in 2024 and expects continued engagements of a similar nature. This exercise will provide valuable test data for integration with US Air Force aircraft in operationally representative force maneuvers. The missions require flights between Xwing's local flight test area surrounding Concord, CA (KCCR), and various military installations in Southern California. The radio data links applied for in this submission allow for high bandwidth test data to be received by Xwing's ground-based test personnel.

Due to the requirement to schedule with WAFC prior to each mission, Xwing defined an operating area using multiple intersecting circles that maximize operational flexibility while limiting potential interference with military operations in the R-2508 Complex and at Vandenberg Space Force Base. Each mission may be further restricted in location or altitude to deconflict with military operations.

The intent is to operate mobile ground stations <80ft AGL up to 122W ERP and mobile aircraft <15,000ft MSL up to 24.3W ERP within 74km/46mirad of SOCL1, within 74km/46mirad of SOCL4, and within 74km/46mirad along the path connecting SOCL1 (N35°55'34", W119°51'38") to SOCL2 (N35°23'24", W119°39'56") to SOCL3 (N34°51'13", W119°28'23"), SOCL4 (N34°30'21", W119°2'13"), SOCL5 (N34°9'23", W118°36'16"), SOCL6 (N34°4'38", W118°4'15"), SOCL7 (N33°59'45", W117°32'18"). This area is shown below as the yellow-shaded area.

