

MatrixSpace, Inc.

Request for Experimental Authorization

File No.: 1223-EX-ST-2026

Exhibit — Request for Experimental Authorization — Market Trials

MatrixSpace, Inc. (“Applicant”) hereby requests an experimental license to conduct a demonstration of two products utilizing the 24.45–24.65 GHz and 9.5–9.8 GHz (radiolocation and radionavigation) frequency bands. The demonstration will be conducted from ground level for prospective customers in the commercial and Department of Defense (DOD) sectors, to demonstrate and test the capabilities of Applicant’s radar technology for Counter-Unmanned Aircraft System (CUAS) applications.

Directional Antenna

At any given time, one set of four devices operates together to provide continuous 360-degree horizontal coverage, with each device covering a fixed azimuth sector and capable of steering from 0 to 90 degrees in the vertical plane within that sector. The four devices will be temporarily mounted on 2-meter tripods within a 0.5 km radius of the site, in adjacent open fields. No demonstration observer will be in close proximity to the devices during operation.

Operation Description

Applicant proposes to test up to eight (8) devices under this requested license: four (4) devices operating in the 24.45–24.65 GHz band and four (4) devices operating in the 9.5–9.8 GHz band. Each set of four (4) devices provides 360 degrees of coverage.

Only one set of devices will be transmitting at any given time, and transmissions will not be continuous for the duration of the requested authorization period. The devices will be set up in an adjacent open field, within 0.5 km of the demonstration area, and no demonstration observer will be in close proximity to the device(s) during operation.

Applicant will demonstrate this device for detecting UAS and general aviation aircraft within the airspace. Small UAS aircraft flown as part of the demonstration will be flown in accordance with 14 CFR Part 107, by licensed UAS pilots. All Part 107 regulations will be followed, and any required airspace pre-authorizations will be obtained in advance of flight operations. No directed-energy, RF-jamming, or electronic-attack functions will be employed — the equipment is passive-receive/active-radar detection and tracking equipment only.

Location 1: Mobile

Coordinates: 42–06–52 N, 086–28’29 W — Radius: 0.5 km.

Applicant already holds several conventional experimental licenses (under Section 5.3(j) of the Commission’s Rules) and licenses to conduct market trials (under Section 5.3(k) of the Rules) in this band, as well as in other bands, which use, in some cases, somewhat more extensive power and other parameters than those proposed in this request. See Call Sign WW9XYU, FCC File No. 1014-EX-ST-2024; Call Sign WN2XOI, FCC File No. 0692-EX-CN-2023; and Call Sign WN2XFM, FCC File No. 1206-EX-CN-2022 (the “Existing Licenses”).

Applicant hereby requests FCC approval to conduct demonstrations for a subset of the frequencies and power levels approved under the Existing Licenses, for the purpose of market trials under Section 5.3(k) of the Commission’s Rules. Applicant proposes to test up to eight (8) devices. Applicant is in the process of product improvements and would like to confirm that the device may be deployed successfully in real-world conditions. These trials will be used to model potential applications and otherwise enhance potential product offerings (including radiolocation and radionavigation offerings) for the device, subject to further Commission approval as needed.

Applicant understands that it may only lease equipment to trial participants unless those participants also obtain an experimental authorization for this test (and, to the extent necessary, hereby requests approval to market and/or lease such devices to such participants, as otherwise approved herein). Because approval of the proposed license will contribute to the development of new technology, the proposed license is consistent with the public interest.

Applicant does not believe the demonstration detailed herein will result in any harmful interference on private lands at the location. However, in the unlikely event that any interference issues arise pursuant to operations under this experimental license, the point of contact for immediate cessation of operations is Dan Nobbe, reachable at 815-404-6656 or dan.nobbe@matrixspace.com
