

Application Narrative

Caos Capital (“Caos”) herein requests renewal of the Conventional Experimental License for WP2XZA for an additional 24-month period to continue testing its developmental radar system in the 230.275-232.975 MHz band in Hawthorne, CA. The FCC initially authorized WP2XZA for a 10-month term ending on October 30, 2026. *See* ELS File No. 0777-EX-CN-2025 (“Hawthorne License”). **{{BEGIN CONFIDENTIAL}}** [REDACTED]

[REDACTED]
[REDACTED]
[REDACTED]
[REDACTED]
[REDACTED] **{{END CONFIDENTIAL}}**

The technical parameters and proposed operations for the instant application are identical to those previously authorized in the Hawthorne License; therefore, the information and exhibits provided in support of the Hawthorne License are incorporated by reference herein. Caos is concurrently coordinating this request with the MAG coordinator and will supplement the record with documentation of that concurrence once received. All coordination requirements and restrictions applicable to the Hawthorne License remain unchanged and will continue to apply to the extended operations.

PURPOSE OF EXPERIMENT AND AFFIRMATION OF PUBLIC INTEREST

As Congress, the Departments of Justice and Homeland Security, and the Commission have recognized, increasing unmanned aircraft systems (“UAS”) operating in or near sensitive facilities, infrastructure, and regions pose serious and growing risks to national security, public safety, and the continuity of government operations.

Caos continues to develop and refine a prototype radar system for air traffic and maritime surveillance applications. **{{BEGIN CONFIDENTIAL}}** [REDACTED]

[REDACTED]
[REDACTED]
[REDACTED]
[REDACTED] **{{END**

CONFIDENTIAL}}

Caos accepts that any grant of authority will be on a non-interference, no protection basis. Caos affirms that its operations will not cause harmful interference to Federal or other FCC-authorized co-frequency operations operating in accordance with the Table of Frequency Allocations in proximity to the test sites. Caos will operate in accordance with any agreements

¹ Pursuant to Section 1.62 of the Commission’s rules, Caos intends to continue to operate its experimental radar system consistent with the terms and conditions of the Hawthorne License until action is taken on this timely filed renewal application. *See* 47 C.F.R. § 1.62.

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FOR PUBLIC INSPECTION

entered into with such operators. Caos further affirms that the radar system is designed for detect and warn operations, and the company will not conduct any operations involving directed energy, electromagnetic jamming, electronic attack, spoofing, mimicking, and/or signal emulation under this authorization.

These limited, non-interference operations are designed to **BEGIN CONFIDENTIAL**

██████████ **{{END CONFIDENTIAL}}** Grant of this application will benefit the public interest by enabling the development, demonstration, and qualification of much needed detect and warn C-UAS technologies that can expand protective coverage within security-critical airspace, without causing harmful interference to other authorized spectrum users.

The operations proposed in this application are supported by, and the authorization will be used for fulfilling obligations of a contract with, U.S. Air Force Research Laboratory/AFWERX under Contract No. FA864924P0424. The contract points of contact are Thomas Shea (thomas.shea.3@us.af.mil) and Joshua Ortiz (joshua.ortiz.3@us.af.mil, 937-713-9886).

For good cause established in the Hawthorne License and re-affirmed herein, Caos respectfully requests grant of this request for renewal.