

Reach Power, Inc.
Application for FCC Part 5
Special Temporary Authority
ELS File No. 0543-EX-ST-2026

NARRATIVE STATEMENT

Pursuant to Sections 5.3(a), (e), (h) and (j), and Section 5.61 of the Federal Communications Commission (“FCC”) rules, 47 C.F.R. §§ 5.3(a), (e), (h) and (j); 5.61 (2022), Reach Power, Inc. fna Supply, Inc. DBA Reach Labs (“Reach Power”) hereby respectfully requests special temporary authority (“STA”) to conduct a demonstration of a point-to-point phased array system at government facilities during the dates of July 11-29, 2026. Specifically, Reach Power seeks to demonstrate experimental equipment at Fort Irwin National Training Center at the location in California described below.

In support of this request, the following is shown:

1) Applicant’s Name, Address, and FCC Registration Number (“FRN”):

- a) Company Name: Reach Power, Inc
- b) Address: 114 Hazel Avenue, Redwood City, California 94061
- c) ERN: 0026852046

2) Description of Operation and Need for STA:

Reach Power has been involved in conducting experimental tests of a wireless power system under separate experimental licenses issued under call sign WL2XYZ (which was granted initially under Experimental Radio Licensing System (“ELS”) File No. 0603-EX-CN-2021, renewed under ELS File No. 0445-EX-CR-2023, and modified under 0242-EX-CM-2023) and call sign WN2XYA, which was issued under ELS File No. 1533-EX-CN-2023 and modified under ELS File No. 0094-EX-CM-2024.

Reach Power recently learned of the government’s request to have the company conduct a demonstration at Fort Irwin, CA, which is a location that is not on its existing licenses. Accordingly, Reach Power requires an STA to conduct such a demonstration. Additionally, Reach is in contact with the organizers and spectrum management personnel at Fort Irwin and for the Army exercise itself, PCC6.

The demonstration will involve demonstrating a custom-built, phased array system to beam power directionally to small RFDC converters.

3) Location of Proposed Demonstration:

Reach Power seeks authority to operate mobile and temporary fixed units at the location listed below and in the accompanying application.

Location	Coordinates (NAD 83)	Operational Radius (from Coordinates)
Fort Irwin, CA	North 35 20 54 West 116 34 27	11.2 km

4) Equipment To Be Used:

The company proposes to operate phased array prototype transmitters developed by Reach Power, Inc. as well as other prototypes as needed. In no event would the company operate more than four (4) transmitters during the demonstration.

Moreover, the company will limit the operation of the equipment to the minimum necessary to conduct its research. However, Reach Power will be using its equipment to support an Army exercise (Project Convergence Capstone 6) and may be required to operate up to 24 hours a day during the exercise itself.

5) Frequencies Desired:

The company proposes to operate on the frequency 24.125 GHz with a tolerance of 0.002%; accordingly, it has specified an emission designator with an occupied bandwidth of 1 MHz. The company also proposes operate on the frequency 5.855 GHz with a tolerance of 0.008%; accordingly, it has specified an emission designator with an occupied bandwidth of 1 MHz.

6) Power Levels and RFE Considerations:

The peak power output per unit in the system at 24 GHz is 180 Watts as a CW-like signal transmitted continuously into an antenna patch array with a gain of 43 dBi and a peak effective radiated power (“ERP”) of 2.19 MW. The peak power output per unit in the system at 5.8 GHz is 200 Watts as a CW-like signal transmitted continuously into an antenna patch array with a gain of 33 dBi and a peak effective radiated power (“ERP”) of 243 kW. Reach Power will take precautions to ensure compliance with the limits set forth in the FCC’s rules relating to human exposure to radiofrequency energy (“RFE”). For example:

- a) An area consisting of a 3m radius from the transmit antenna will be established as a personnel exclusion zone. The exclusion zone will be marked with a barrier and posted with an RF warning sign; and.
- b) All personnel operating the transmitters must wear a personal RF meter that displays the current exposure level of all frequencies up to 40 GHz and that beeps to warn the operator if exposure is approaching or has exceeded the occupational maximum permissible exposure limits of the FCC.

In addition, all personnel who will operate the equipment are knowledgeable as to the effects of RF energy and will have the ability to control their exposure. For example, all operators must complete RF Safety and Awareness training.

7) Type of Emission, Modulation Technique, and Bandwidth Required:

As noted above, the transmissions will not be modulated and will occupy a bandwidth of 1 MHz or less. Accordingly, the application specifies that the emission designator is 1M00N0N.

8) Overall Height of Antenna(s) Above Ground/Orientation:

Reach Power will comply with all Federal Aviation Administration (“FAA”) and FCC rules and regulations regarding the installation and operation of antennas and their support structures. The antennas to be deployed under the authority requested under this STA will not extend more than six meters above ground or more than six meters above a building.

9) Interference Protection/Stop Buzzer Contact Information:

Reach Power recognizes that the operation of any equipment under experimental authority must not cause harmful interference to authorized facilities. Should interference occur, it will take immediate steps to resolve the interference, including if necessary, arranging for the discontinuance of operation.

Notwithstanding these precautions, Reach Power believes that its operations are unlikely to cause interference. Reach Power is coordinating closely with the staff and spectrum managers at Fort Irwin and the National Training Center there for this exercise (Project Convergence Capstone 6), and the operations will be limited to mobile and temporary fixed locations within the radius of the center coordinates specified in the application. Fort Irwin spectrum managers have already received the data in this application and are in contact to ensure these transmitters do not cause interference with any other system.

In addition, Reach Power advises the FCC that Chris Davlantes, the Chief Executive Officer of the company, is the technical contact for this request and that he will serve as the “stop buzzer” in the event that operations must be terminated because of any interference concerns. His contact information is provided below. Fort Irwin spectrum managers and staff also have this information.

10) Contact Information:

a) Company Technical Point of Contact and “Stop Buzzer:”

Chris Davlantes, CEO
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b) FCC Legal Counsel:

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