

United States of America
FEDERAL COMMUNICATIONS COMMISSION
EXPERIMENTAL
RADIO STATION CONSTRUCTION PERMIT
AND LICENSE

EXPERIMENTAL

(Nature of Service)

XC MO

(Class of Station)

WJ2XQX

(Call Sign)

0027-EX-TC-2020

(File Number)

NAME Dynetics, Inc.

Subject to the provisions of the Communications Act of 1934, subsequent acts, and treaties, and all regulations heretofore or hereafter made by this Commission, and further subject to the conditions and requirements set forth in this license, the licensee hereof is hereby authorized to use and operate the radio transmitting facilities hereinafter described for radio communications in accordance with the program of experimentation described by the licensee in its application for license.

Operation: In accordance with Sec. 5.3(h) of the Commission's Rules

Station Locations

- (1) MOBILE: Temporary Fixed Ground Operations, Huntsville, AL, within 0.81 km, centered around NL 34-44-12; WL 86-41-23
- (2) MOBILE: 400 ft. AGL, Huntsville, AL, within 0.81 km, centered around NL 34-44-12; WL 86-41-23
- (3) MOBILE: Temporary Fixed Ground Operations, Harvest, AL, within 1.61 km, centered around NL 34-51-53; WL 86-46-13
- (4) MOBILE: 400 ft. AGL, Harvest, AL, within 1.61 km, centered around NL 34-51-53; WL 86-46-13
- (5) MOBILE: Temporary Fixed Ground Operations Hurtsboro AL, within 16.09 km, centered around NL 32-13-17; WL 85-28-18
- (6) MOBILE: 400 ft. AGL, Hurtsboro, AL, within 16.09 km, centered around NL 32-13-17; WL 85-28-18

Frequency Information

MOBILE: Temporary Fixed Ground Operations, Huntsville, AL, within 0.81 km, centered around NL 34-44-12; WL 86-41-23

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
15.4-15.7 GHz	MO	300MF0N	6 W (ERP)	0.000094 %

This authorization effective January 30, 2020 and
will expire 3:00 A.M. EST September 01, 2020

**FEDERAL
COMMUNICATIONS
COMMISSION**



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15.55 GHz	MO	300MF0N	6 W (ERP)	0.000094 %

MOBILE: Temporary Fixed Ground Operations, Harvest, AL, within 1.61 km, centered around NL 34-51-53; WL 86-46-13

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MOBILE: Temporary Fixed Ground Operations Hurtsboro AL, within 16.09 km, centered around NL 32-13-17; WL 85-28-18

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
15.4-15.7 GHz	MO	300MF0N	6 W (ERP)	0.000094 %

Frequency Information

MOBILE: 400 ft. AGL, Hurtsboro, AL, within 16.09 km, centered around NL 32-13-17; WL 85-28-18

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
15.4-15.7 GHz	MO	300MF0N	6 W (ERP)	0.000094 %
15.55 GHz	MO	300MF0N	6 W (ERP)	0.000094 %

Special Conditions:

- (1) In lieu of frequency tolerance, the occupied bandwidth of the emission shall not extend beyond the band limits set forth above.
- (2) Licensee should be aware that other stations may be licensed on these frequencies and if any interference occurs, the licensee of this authorization will be subject to immediate shut down.
- (3) The radars mounted on UAS shall not be used for air traffic control purposes or separation of aircraft.
- (4) Aircraft operations are limited to U.S.-registered aircraft.
- (5) The authorized station must be in compliance with the Federal Aviation Administration (FAA) requirements as set forth in Section 17.4 of the Commission's Rules.
- (6) The authorized station must be in compliance with environmental requirement set forth in Section 1.1307 of the Commission's Rules.
- (7) Experimental station shall use the minimum power level necessary to establish communications links to minimize potential interference to licensed users.
- (8) This authorization is without prejudice to any determination that the Commission may make regarding pending or future experimental satellite earth station applications.
- (9) The stop buzzer contact for this project is Baron Johnson (352) 339-5272 and Steve Norris (256) 585-7885.
- (10) Operations are on a non-interference basis (NIB) and shall not cause harmful interference to, and shall not claim protection from, interference caused to it by any other lawfully operating station and it shall cease transmission(s) immediately upon notice of such interference and notify the FCC in writing.
- (11) No automatic renewal for this authorization.
- (12) This authorization is issued for the express purpose of conducting experimental operations described in the related application and required by DARPA, contract number HR0011-17-9-0017. The use of this radio station in any other manner or for any other purpose will constitute a violation of the privileges herein authorized. Except as subsequently authorized by the Commission, this radio station shall not operate after the expiration date of the contract designated in the related application and enumerated above.