

**United States of America
FEDERAL COMMUNICATIONS COMMISSION
EXPERIMENTAL
SPECIAL TEMPORARY AUTHORIZATION**

EXPERIMENTAL

(Nature of Service)

WO9XXS

(Call Sign)

XC MO

(Class of Station)

1247-EX-ST-2019

(File Number)

NAME Dynetics, Inc.

This Special Temporary Authorization is granted upon the express condition that it may be terminated by the Commission at any time without advance notice or hearing if in its discretion the need for such action arises. Nothing contained herein shall be construed as a finding by the Commission that the authority herein granted is or will be in the public interest beyond the express terms hereof.

This Special Temporary Authorization shall not vest in the grantee any right to operate the station nor any right in the use of the frequencies designated in the authorization beyond the term hereof, nor in any other manner than authorized herein. Neither the authorization nor the right granted hereunder shall be assigned or otherwise transferred in violation of the Communications Act of 1934. This authorization is subject to the right of use of control the Government of the United States conferred by Section 706 of the Communications Act of 1934.

Special Temporary Authority is hereby granted to operate the apparatus described below:

Purpose Of Operation:

Operation of Fortem low-weight, low-power prototype radar for counter UAS.

Station Locations

- (1) MOBILE: Epps Airpark, Harvest, AL: airborne max altitude 400 ft. AGL, within 2 km, centered around NL 34-51-53; WL 86-46-13
- (2) MOBILE: Yuma Proving Grounds, AZ: airborne max altitude 1000 ft. AGL, within 30 km, centered around NL 33-25-22; WL 114-17-46
- (3) MOBILE: White Sands Missile Range, NM: airborne max altitude 1000 ft. AGL, within 30 km, centered around NL 32-31-39; WL 106-01-41
- (4) MOBILE: Dugway Proving Grounds, UT: airborne max altitude 1000 ft. AGL, within 15 km, centered around NL 40-11-43; WL 112-56-24
- (5) MOBILE: Marine Corps AGCC, Twentynine Palms, CA: airborne max altitude 1000 ft. AGL, within 15 km, centered around NL 34-17-44; WL 116-09-02
- (6) MOBILE: Muscatatuck Urban Trng Ctr, IN: airborne max altitude 1000 ft. AGL, within 10 km, centered around NL 39-02-59; WL 85-31-44
- (7) MOBILE: Dahlgren Naval Supp Fac, VA: airborne max altitude 1000 ft. AGL, within 10 km, centered around NL 38-19-40; WL 77-02-01
- (8) MOBILE: Pax River NAS, MD: airborne max altitude 1000 ft. AGL, within 10 km, centered around NL 38-08-24; WL 76-25-02
- (9) MOBILE: Camp Roberts, CA: airborne max altitude 1000 ft. AGL, within 15 km, centered around NL 35-47-11; WL 120-47-09
- (10) MOBILE: Avon Park Air Force Range, FL: airborne max altitude 1000 ft. AGL, within 10 km, centered around NL 27-39-04; WL 81-20-46

This authorization effective August 15, 2019 and
will expire 3:00 A.M. EST February 15, 2020

**FEDERAL
COMMUNICATIONS
COMMISSION**



Station Locations

- (11) MOBILE: Camp Shelby, MS: airborne max altitude 1000 ft. AGL, within 15 km, centered around NL 31-10-23; WL 89-09-41
- (12) MOBILE: Eileson AFB, AK: airborne max altitude 1000 ft. AGL, within 40 km, centered around NL 64-39-49; WL 147-05-58
- (13) MOBILE: Fort AP Hill, VA: airborne max altitude 1000 ft. AGL, within 15 km, centered around NL 38-04-11; WL 77-19-07
- (14) MOBILE: Fort Bragg, NC: airborne max altitude 1000 ft. AGL, within 30 km, centered around NL 35-10-13; WL 79-00-55
- (15) MOBILE: Arnold AFB, TN: airborne max altitude 1000 ft. AGL, within 10 km, centered around NL 35-23-32; WL 86-05-09

Frequency Information

MOBILE: Epps Airpark, Harvest, AL: airborne max altitude 400 ft. AGL, within 2 km, centered around NL 34-51-53; WL 86-46-13

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
16.2-16.5 GHz	MO	150MQXN	20 W (ERP)	0.000028 %

MOBILE: Yuma Proving Grounds, AZ: airborne max altitude 1000 ft. AGL, within 30 km, centered around NL 33-25-22; WL 114-17-46

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
16.2-16.5 GHz	MO	150MQXN	20 W (ERP)	0.000028 %

MOBILE: White Sands Missile Range, NM: airborne max altitude 1000 ft. AGL, within 30 km, centered around NL 32-31-39; WL 106-01-41

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
16.2-16.5 GHz	MO	150MQXN	20 W (ERP)	0.000028 %

Frequency Information

MOBILE: Dugway Proving Grounds, UT: airborne max altitude 1000 ft. AGL, within 15 km, centered around NL 40-11-43; WL 112-56-24

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
16.2-16.5 GHz	MO	150MQXN	20 W (ERP)	0.000028 %

MOBILE: Marine Corps AGCC, Twentynine Palms, CA: airborne max altitude 1000 ft. AGL, within 15 km, centered around NL 34-17-44; WL 116-09-02

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
16.2-16.5 GHz	MO	150MQXN	20 W (ERP)	0.000028 %

MOBILE: Muscatatuck Urban Trng Ctr, IN: airborne max altitude 1000 ft. AGL, within 10 km, centered around NL 39-02-59; WL 85-31-44

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
16.2-16.5 GHz	MO	150MQXN	20 W (ERP)	0.000028 %

MOBILE: Dahlgren Naval Supp Fac, VA: airborne max altitude 1000 ft. AGL, within 10 km, centered around NL 38-19-40; WL 77-02-01

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
16.2-16.5 GHz	MO	150MQXN	20 W (ERP)	0.000028 %

Frequency Information

MOBILE: Pax River NAS, MD: airborne max altitude 1000 ft. AGL, within 10 km, centered around NL 38-08-24; WL 76-25-02

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
16.2-16.5 GHz	MO	150MQXN	20 W (ERP)	0.000028 %

MOBILE: Camp Roberts, CA: airborne max altitude 1000 ft. AGL, within 15 km, centered around NL 35-47-11; WL 120-47-09

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
16.2-16.5 GHz	MO	150MQXN	20 W (ERP)	0.000028 %

MOBILE: Avon Park Air Force Range, FL: airborne max altitude 1000 ft. AGL, within 10 km, centered around NL 27-39-04; WL 81-20-46

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
16.2-16.5 GHz	MO	150MQXN	20 W (ERP)	0.000028 %

MOBILE: Camp Shelby, MS: airborne max altitude 1000 ft. AGL, within 15 km, centered around NL 31-10-23; WL 89-09-41

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
16.2-16.5 GHz	MO	150MQXN	20 W (ERP)	0.000028 %

Frequency Information

MOBILE: Eileson AFB, AK: airborne max altitude 1000 ft. AGL, within 40 km, centered around NL 64-39-49; WL 147-05-58

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
16.2-16.5 GHz	MO	150MQXN	20 W (ERP)	0.000028 %

MOBILE: Fort AP Hill, VA: airborne max altitude 1000 ft. AGL, within 15 km, centered around NL 38-04-11; WL 77-19-07

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
16.2-16.5 GHz	MO	150MQXN	20 W (ERP)	0.000028 %

MOBILE: Fort Bragg, NC: airborne max altitude 1000 ft. AGL, within 30 km, centered around NL 35-10-13; WL 79-00-55

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
16.2-16.5 GHz	MO	150MQXN	20 W (ERP)	0.000028 %

MOBILE: Arnold AFB, TN: airborne max altitude 1000 ft. AGL, within 10 km, centered around NL 35-23-32; WL 86-05-09

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
16.2-16.5 GHz	MO	150MQXN	20 W (ERP)	0.000028 %

Special Conditions:

- (1) Dynetics, Inc. must adhere to the following:
 - a. For tests at White Sands Missile Range, coordinate test dates and times with the VLA NRAO Spectrum Manager, Dan "Mert" Mertely. He can be reached at nrao-rfi@nrao.edu; phone (575) 835-7128.
 - b. The frequency is allocated for radiolocation. This experimental station shall not be used for UAS Detect and Avoid (DAA) operations.
- (2) Dynetics must contact NSWCCD Dahlgren 540-653-6187 prior to operation.