

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

EXPERIMENTAL

(Nature of Service)

XC MO

(Class of Station)

WJ2XQV

(Call Sign)

0180-EX-CM-2021

(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 35 km, centered around NL 34-44-12; WL 86-41-23
- (2) MOBILE: Huntsville, AL, airborne max altitude 400 ft. AGL, within 35 km, centered around NL 34-44-12; WL 86-41-23
- (3) MOBILE: Temp Fixed Ground Operations, Yuma Proving Grounds, within 30 km, centered around NL 33-25-22; WL 114-17-46
- (4) MOBILE: Yuma Proving Grounds, AZ: Max altitude 1000 ft. AGL, within 30 km, centered around NL 33-25-22; WL 114-17-46
- (5) MOBILE: Temp Fixed Ground Ops, White Sands Range, NM, within 30 km, centered around NL 33-43-27; WL 106-28-12
- (6) MOBILE: 1000 ft. AGL, White Sands Range, NM, within 30 km, centered around NL 33-43-27; WL 106-28-12
- (7) MOBILE: Temp Fixed Ground Operations, Dugway Proving Grnds, within 15 km, centered around NL 40-11-43; WL 112-56-24
- (8) MOBILE: 1000 ft. AGL, Dugway Proving Grnds, within 15 km, centered around NL 40-11-43; WL 112-56-24
- (9) MOBILE: Temporary Fixed Ground Operations Eglin AFB, FL, within 16 km, centered around NL 30-31-08; WL 86-46-55
- (10) MOBILE: 1000 ft. AGL Eglin AFB, FL, within 16 km, centered around NL 30-31-08; WL 86-46-55
- (11) MOBILE: Temporary Fixed Ground Operations Eglin AFB, FL, within 7 km, centered around NL 30-38-22; WL 86-19-08
- (12) MOBILE: Airborne 404 ft. AGL Eglin AFB, FL, within 7 km, centered around NL 30-38-22; WL 86-19-08
- (13) MOBILE: Temporary Fixed Ground Operations JBSA-Randolph, TX, within 4 km, centered around NL 29-31-48; WL 98-15-43

This authorization effective December 02, 2021 and
will expire 3:00 A.M. EST October 01, 2023

**FEDERAL
COMMUNICATIONS
COMMISSION**



Station Locations

- (14) MOBILE: 404 ft. Airborne AGL JBSA-Randolph, TX, within 4 km, centered around NL 29-31-48; WL 98-15-43
- (15) MOBILE: Temporary Fixed Grnd Operations Redstone Arsenal, AL, within 11 km, centered around NL 34-41-05; WL 86-41-23
- (16) MOBILE: 404 ft. Airborne AGL Redstone Arsenal, AL, within 11 km, centered around NL 34-41-05; WL 86-41-23

Frequency Information

MOBILE: Temporary Fixed Ground Operations, Huntsville, AL, within 35 km, centered around NL 34-44-12; WL 86-41-23

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1780-1850 MHz	MO	2M24D1D 4M43D1D 8M98D1D	4 W (ERP)	0.00015 %

MOBILE: Huntsville, AL, airborne max altitude 400 ft. AGL, within 35 km, centered around NL 34-44-12; WL 86-41-23

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1780-1850 MHz	MO	2M42D1D 4M43D1D 8M98D1D	1.6 W (ERP)	0.00015 %

MOBILE: Temp Fixed Ground Operations, Yuma Proving Grounds, within 30 km, centered around NL 33-25-22; WL 114-17-46

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1780-1850 MHz	MO	2M24D1D 4M43D1D 8M98D1D	4 W (ERP)	0.00015 %

Frequency Information

MOBILE: Yuma Proving Grounds, AZ: 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 (+/-)
1780-1850 MHz	MO	2M42D1D 4M43D1D 8M98D1D	1.6 W (ERP)	0.00015 %

MOBILE: Temp Fixed Ground Ops, White Sands Range, NM, within 30 km, centered around NL 33-43-27; WL 106-28-12

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1780-1850 MHz	MO	2M24D1D 4M43D1D 8M98D1D	4 W (ERP)	0.00015 %

MOBILE: 1000 ft. AGL, White Sands Range, NM, within 30 km, centered around NL 33-43-27; WL 106-28-12

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1780-1850 MHz	MO	2M42D1D 4M43D1D 8M98D1D	1.6 W (ERP)	0.00015 %

MOBILE: Temp Fixed Ground Operations, Dugway Proving Grnds, within 15 km, centered around NL 40-11-43; WL 112-56-24

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1780-1850 MHz	MO	2M24D1D 4M43D1D	4 W (ERP)	0.00015 %

Frequency Information

MOBILE: Temp Fixed Ground Operations, Dugway Proving Grnds, within 15 km, centered around NL 40-11-43; WL 112-56-24

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1780-1850 MHz	MO	8M98D1D	4 W (ERP)	0.00015 %

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

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1780-1850 MHz	MO	2M42D1D 4M43D1D 8M98D1D	1.6 W (ERP)	0.00015 %

MOBILE: Temporary Fixed Ground Operations Eglin AFB, FL, within 16 km, centered around NL 30-31-08; WL 86-46-55

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1780-1850 MHz	MO	2M24D1D 4M43D1D 8M98D1D	4 W (ERP)	0.00015 %

MOBILE: 1000 ft. AGL Eglin AFB, FL, within 16 km, centered around NL 30-31-08; WL 86-46-55

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1780-1850 MHz	MO	2M24D1D 4M43D1D 8M98D1D	1.6 W (ERP)	0.00015 %

Frequency Information

MOBILE: Temporary Fixed Ground Operations Eglin AFB, FL, within 7 km, centered around NL 30-38-22; WL 86-19-08

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1780-1850 MHz	MO	2M24D1D 4M43D1D 8M98D1D	4 W (ERP)	0.00015 %

MOBILE: Airborne 404 ft. AGL Eglin AFB, FL, within 7 km, centered around NL 30-38-22; WL 86-19-08

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1780-1850 MHz	MO	2M24D1D 4M43D1D 8M98D1D	1.6 W (ERP)	0.00015 %

MOBILE: Temporary Fixed Ground Operations JBSA-Randolph, TX, within 4 km, centered around NL 29-31-48; WL 98-15-43

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1780-1850 MHz	MO	2M24D1D 4M43D1D 8M98D1D	4 W (ERP)	0.00015 %

MOBILE: 404 ft. Airborne AGL JBSA-Randolph, TX, within 4 km, centered around NL 29-31-48; WL 98-15-43

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1780-1850 MHz	MO	2M24D1D 4M43D1D	1.6 W (ERP)	0.00015 %

Frequency Information

MOBILE: 404 ft. Airborne AGL JBSA-Randolph, TX, within 4 km, centered around NL 29-31-48; WL 98-15-43

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1780-1850 MHz	MO	8M98D1D	1.6 W (ERP)	0.00015 %

MOBILE: Temporary Fixed Grnd Operations Redstone Arsenal, AL, within 11 km, centered around NL 34-41-05; WL 86-41-23

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1780-1850 MHz	MO	2M24D1D 4M43D1D 8M98D1D	4 W (ERP)	0.00015 %

MOBILE: 404 ft. Airborne AGL Redstone Arsenal, AL, within 11 km, centered around NL 34-41-05; WL 86-41-23

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1780-1850 MHz	MO	2M24D1D 4M43D1D 8M98D1D	1.6 W (ERP)	0.00015 %

Special Conditions:

- (1) 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.
- (2) The occupied bandwidth of the emission shall not extend beyond the band limits set forth above.
- (3) The station identification requirements of Section 5.115 of the Commission's Rules are waived.
- (4) This experiment is not for operational use below 1780 MHz.
- (5) The designated point of contact to terminate the system if interference occurs is Andy Evans - (256) 426-1318 and Jude Collins - (256) 694-0063.

Special Conditions:

- (6) This authorization is issued for the express purpose of conducting experimental operations described in the related application and required by US Army, contract Number W9124-P-19-9-1001. 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 be operated after the expiration date of the contract designated in the related application and enumerated above.
- (7) THE FOLLOWING CONDITION APPLIES TO THE OPERATION IN THE 1780-1850 MHZ BAND AT WHITE SANDS RANGE, NEW MEXICO.
 - a. OPERATIONS IN NEW MEXICO AND TEXAS (WEST OF 104W) MUST BE COORDINATED WITH AFC-WSMR AT LEAST 96 HRS PRIOR TO ACTIVATION VIA E-MAIL AT USARMY.WSMR.IMCOM-CENTRAL.LIST.DODAFAC(AT)MAIL.MIL.
- (8) COORDINATION WITH THE YPG SPECTRUM MANAGEMENT OFFICE (SMO) IS MANDATORY AT LEAST 14 CALENDAR DAYS PRIOR TO ANY INTENDED USE OF THIS FREQUENCY ON YPG OR WITHIN ITS RESTRICTED AIRSPACE BY CONTACTING THE YPG SMO AT 928-328-7144.
- (9) OPERATIONS MUST BE SCHEDULED AS A WSMR RANGE MISSION, THROUGH THE RANGE SPONSOR. FINAL AUTHORIZATION TO RADIATE IS CONTINGENT UPON SUCCESSFUL SCHEDULING AND DECONFLICTION OF SPECTRUM, AND AIRSPACE (IF REQUIRED) WITH OTHER AREA-WIDE OPERATIONS.
- (10) License is for demonstration and testing only.
- (11) Operations will not be simultaneous at all locations specified on the subject license.
- (12) A single team will deploy to and set up operations at only one location at a time.