

**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)

0283-EX-CM-2018

(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 2 km, centered around NL 34-44-12; WL 86-41-23
- (2) MOBILE: 400 ft. AGL, Huntsville, AL, within 2 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
- (7) MOBILE: Temporary Fixed Ground Operations, Rogersville, AL, within 1 km, centered around NL 34-53-14; WL 87-20-29
- (8) MOBILE: 400 ft. AGL, Rogersville, AL, within 1 km, centered around NL 34-53-14; WL 87-20-29
- (9) MOBILE: Temporary Fixed Ground Operations, Taft, TN, within 3 km, centered around NL 34-59-32; WL 86-38-57
- (10) MOBILE: 400 ft. AGL, Courtland, AL, within 3 km, centered around NL 34-40-02; WL 87-21-38
- (11) MOBILE: Temporary Fixed Ground Operations, Courtland, AL, within 3 km, centered around NL 34-40-02; WL 87-21-38
- (12) MOBILE: 400 ft. AGL, Taft, TN, within 3 km, centered around NL 34-59-32; WL 86-38-57
- (13) MOBILE: Temp Fixed Ground Operations Yuma Proving Ground, within 12 km, centered around NL 32-55-33; WL 113-45-27

This authorization effective April 26, 2019 and
will expire 3:00 A.M. EST October 01, 2020

**FEDERAL
COMMUNICATIONS
COMMISSION**



Station Locations

(14) MOBILE: 1000 ft. AGL Yuma Proving Ground, within 12 km, centered around NL 32-55-33; WL 113-45-27

Frequency Information

MOBILE: Temporary Fixed Ground Operations, Huntsville, AL, within 2 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: 400 ft. AGL, Huntsville, AL, within 2 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: Temporary Fixed Ground Operations, Harvest, AL, within 1.61 km, centered around NL 34-51-53; WL 86-46-13

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

MOBILE: 400 ft. AGL, Harvest, AL, within 1.61 km, centered around NL 34-51-53; WL 86-46-13

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

Frequency Information

MOBILE: 400 ft. AGL, Harvest, AL, within 1.61 km, centered around NL 34-51-53; WL 86-46-13

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

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 (+/-)
1780-1850 MHz	MO	2M24D1D 4M34D1D 8M98D1D	4 W (ERP)	0.00015 %

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 (+/-)
1780-1850 MHz	MO	2M42D1D 4M43D1D 8M98D1D	1.6 W (ERP)	0.00015 %

MOBILE: Temporary Fixed Ground Operations, Rogersville, AL, within 1 km, centered around NL 34-53-14; WL 87-20-29

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

Frequency Information

MOBILE: 400 ft. AGL, Rogersville, AL, within 1 km, centered around NL 34-53-14; WL 87-20-29

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, Taft, TN, within 3 km, centered around NL 34-59-32; WL 86-38-57

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

MOBILE: 400 ft. AGL, Courtland, AL, within 3 km, centered around NL 34-40-02; WL 87-21-38

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, Courtland, AL, within 3 km, centered around NL 34-40-02; WL 87-21-38

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

Frequency Information

MOBILE: Temporary Fixed Ground Operations, Courtland, AL, within 3 km, centered around NL 34-40-02; WL 87-21-38

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

MOBILE: 400 ft. AGL, Taft, TN, within 3 km, centered around NL 34-59-32; WL 86-38-57

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 Ground, within 12 km, centered around NL 32-55-33; WL 113-45-27

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1780-1850 MHz	MO	2M24D1D 4M34D1D 8M98D1D	4 W (ERP)	0.00015 %

MOBILE: 1000 ft. AGL Yuma Proving Ground, within 12 km, centered around NL 32-55-33; WL 113-45-27

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1780-1850 MHz	MO	2M42D1D 4M34D1D 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) In lieu of frequency tolerance, the occupied bandwidth of the emission shall not extend beyond the band limits set forth above.
- (3) This experiment is not for operational use below 1780 MHz.
- (4) The designated point of contact to terminate the system if interference occurs is Baron Johnson at (352) 339-5272 and Steve Norris at (256) 585-7885.
- (5) 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 be operated after the expiration date of the contract designated in the related application and enumerated above.
- (6) COORDINATION WITH THE YPG SPECTRUM MANAGEMENT OFFICE IS MANDATORY AT LEAST 7 CALENDAR DAYS PRIOR TO ANY INTENDED USE OF THIS FREQUENCY ON YUMA PROVING GROUND OR WITHIN ITS RESTRICTED AIRSPACE BY CONTACTING THE YPG SMO AT (928) 328-7144.