

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

EXPERIMENTAL

(Nature of Service)

WR9XNB

(Call Sign)

XT MO

(Class of Station)

1267-EX-ST-2021

(File Number)

NAME ATTOBahn, 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:

Additional data from these experiments will increase applicants understanding of propagation and network design at this frequency range.

Station Locations

- (1) MOBILE: Within 3.2 km radius of Pocasset, MA, within 3.2 km, centered around NL 41-42-27; WL 70-35-03
- (2) MOBILE: Within 3.2 km of Falls Church, VA, within 3.2 km, centered around NL 38-50-31; WL 77-07-13
- (3) MOBILE: Within 3.2 km of 1114 Sixth Ave., New York, NY, within 3.2 km, centered around NL 40-45-18; WL 73-58-58
- (4) MOBILE: 3.2 km of 26 Broadway, New York, NY, within 3.2 km, centered around NL 40-42-20; WL 74-00-47
- (5) MOBILE: Within 3.2 km of Navy Yard, Brooklyn, NY, within 3.2 km, centered around NL 40-42-02; WL 73-68-20
- (6) MOBILE: Within 3.2 km of Lakeview Loop, Placentia, CA, within 3.2 km, centered around NL 33-52-53; WL 117-49-09

This authorization effective August 16, 2021 and
will expire 3:00 A.M. EST February 13, 2022

**FEDERAL
COMMUNICATIONS
COMMISSION**



Frequency Information

MOBILE: Within 3.2 km radius of Pocasset, MA, within 3.2 km, centered around NL 41-42-27; WL 70-35-03

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
95-100 GHz	MO	2G10D7W	2 W (ERP)	0.0005 %
95-100 GHz	MO	2G10D7W	10 W (ERP)	0.0005 %
95-100 GHz	MO	2G10D7W	1.2 kW (ERP)	0.0005 %
95-100 GHz	MO	2G10D7W	50 mW (ERP)	0.0005 %
100-105 GHz	MO	2G10D7W	1 W (ERP)	0.0005 %
100-105 GHz	MO	2G10D7W	200 W (ERP)	0.0005 %
100-105 GHz	MO	2G10D7W	125 mW (ERP)	0.0005 %
100-105 GHz	MO	2G10D7W	3.2 mW (ERP)	0.0005 %

MOBILE: Within 3.2 km of Falls Church, VA, within 3.2 km, centered around NL 38-50-31; WL 77-07-13

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
95-100 GHz	MO	2G10D7W	10 W (ERP)	0.0005 %

Frequency Information

MOBILE: Within 3.2 km of Falls Church, VA, within 3.2 km, centered around NL 38-50-31; WL 77-07-13

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
95-100 GHz	MO	2G10D7W	2 W (ERP)	0.0005 %
95-100 GHz	MO	2G10D7W	1.2 kW (ERP)	0.0005 %
95-100 GHz	MO	2G10D7W	50 mW (ERP)	0.0005 %
100-105 GHz	MO	2G10D7W	1 W (ERP)	0.0005 %
100-105 GHz	MO	2G10D7W	200 W (ERP)	0.0005 %
100-105 GHz	MO	2G10D7W	125 mW (ERP)	0.0005 %
100-105 GHz	MO	2G10D7W	3.2 mW (ERP)	0.0005 %

MOBILE: Within 3.2 km of 1114 Sixth Ave., New York, NY, within 3.2 km, centered around NL 40-45-18; WL 73-58-58

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
95-100 GHz	MO	2G10D7W	2 W (ERP)	0.0005 %
95-100 GHz	MO	2G10D7W	10 W (ERP)	0.0005 %

Frequency Information

MOBILE: Within 3.2 km of 1114 Sixth Ave., New York, NY, within 3.2 km, centered around NL 40-45-18; WL 73-58-58

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
95-100 GHz	MO	2G10D7W	1.2 kW (ERP)	0.0005 %
95-100 GHz	MO	2G10D7W	50 mW (ERP)	0.0005 %
100-105 GHz	MO	2G10D7W	1 W (ERP)	0.0005 %
100-105 GHz	MO	2G10D7W	200 W (ERP)	0.0005 %
100-105 GHz	MO	2G10D7W	125 mW (ERP)	0.0005 %
100-105 GHz	MO	2G10D7W	3.2 mW (ERP)	0.0005 %

MOBILE: 3.2 km of 26 Broadway, New York, NY, within 3.2 km, centered around NL 40-42-20; WL 74-00-47

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
95-100 GHz	MO	2G10D7W	2 W (ERP)	0.0005 %
95-100 GHz	MO	2G10D7W	10 W (ERP)	0.0005 %
95-100 GHz	MO	2G10D7W	1.2 kW (ERP)	0.0005 %

Frequency Information

MOBILE: 3.2 km of 26 Broadway, New York, NY, within 3.2 km, centered around NL 40-42-20; WL 74-00-47

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
95-100 GHz	MO	2G10D7W	50 mW (ERP)	0.0005 %
100-105 GHz	MO	2G10D7W	1 W (ERP)	0.0005 %
100-105 GHz	MO	2G10D7W	200 W (ERP)	0.0005 %
100-105 GHz	MO	2G10D7W	125 mW (ERP)	0.0005 %
100-105 GHz	MO	2G10D7W	3.2 mW (ERP)	0.0005 %

MOBILE: Within 3.2 km of Navy Yard, Brooklyn, NY, within 3.2 km, centered around NL 40-42-02; WL 73-68-20

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
95-100 GHz	MO	2G10D7W	2 W (ERP)	0.0005 %
95-100 GHz	MO	2G10D7W	10 W (ERP)	0.0005 %
95-100 GHz	MO	2G10D7W	1.2 kW (ERP)	0.0005 %
95-100 GHz	MO	2G10D7W	50 mW (ERP)	0.0005 %

Frequency Information

MOBILE: Within 3.2 km of Navy Yard, Brooklyn, NY, within 3.2 km, centered around NL 40-42-02; WL 73-68-20

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
100-105 GHz	MO	2G10D7W	1 W (ERP)	0.0005 %
100-105 GHz	MO	2G10D7W	200 W (ERP)	0.0005 %
100-105 GHz	MO	2G10D7W	125 mW (ERP)	0.0005 %
100-105 GHz	MO	2G10D7W	3.2 mW (ERP)	0.0005 %

MOBILE: Within 3.2 km of Lakeview Loop, Placentia, CA, within 3.2 km, centered around NL 33-52-53; WL 117-49-09

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
95-100 GHz	MO	2G10D7W	2 W (ERP)	0.0005 %
95-100 GHz	MO	2G10D7W	10 W (ERP)	0.0005 %
95-100 GHz	MO	2G10D7W	1.2 kW (ERP)	0.0005 %
95-100 GHz	MO	2G10D7W	50 mW (ERP)	0.0005 %
100-105 GHz	MO	2G10D7W	1 W (ERP)	0.0005 %

Frequency Information

MOBILE: Within 3.2 km of Lakeview Loop, Placentia, CA, within 3.2 km, centered around NL 33-52-53; WL 117-49-09

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
100-105 GHz	MO	2G10D7W	200 W (ERP)	0.0005 %
100-105 GHz	MO	2G10D7W	125 mW (ERP)	0.0005 %
100-105 GHz	MO	2G10D7W	3.2 mW (ERP)	0.0005 %

Special Conditions:

- (1) All transmitting and/or receiving equipment used in the study shall be owned by the licensee.
- (2) Licensee is required to ensure that trial devices are either rendered inoperable or retrieved by them from trial participants at the conclusion of the trial. Licensee is required to notify trial participants in advance that operation of the trial device is subject to this condition.
- (3) Further requests for extension of the authority granted herein must be filed on Form 442, "Application for New or Modified Radio Station Authorization under Part 5 of FCC Rules - Experimental Radio Service." Future STA requests to extend this authorization will not be considered.
- (4) ATTOBahn, Inc. should avoid transmissions in the direction of Haystack Observatory (please see <https://www.haystack.mit.edu/about/haystack-telescopes-and-facilities/haystack-37m>).
- (5) ATTOBahn, Inc. should either notch the 100-102 GHz frequency range, or coordinate operation with the Haystack Observatory point of contact when transmitting in this range:

Dr. Philip Erickson
Associate Director, Haystack Observatory
Email: pje@mit.edu
Telephone: 617-715-5769

- (6) Max power 1.2kW.

Special Conditions:

- (7) Prior to operation, ATTOBahn, Inc. must contact the MIT-LL Haystack Observatory POC Mr. Dave Gordon, E-Mail: dgordon@ll.mit.edu /Ph 781- 981-4926/Work from home (617) 863-0550 and/or MIT-LL Haystack Control Room at 781-981-5819 to coordinate simultaneous operations and mitigate any potential interference to the Haystack observatory.