

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

EXPERIMENTAL

(Nature of Service)

XR FX

(Class of Station)

WK2XON

(Call Sign)

0875-EX-CN-2019

(File Number)

NAME NYU Tandon School of Engineering

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(i) of the Commission's Rules

Station Locations

- (1) Brooklyn (KINGS), NY - NL 40-41-41; WL 73-59-09
- (2) Brooklyn (KINGS), NY - NL 40-41-39; WL 73-59-10
- (3) New York City (NEW YORK), NY - NL 40-43-45; WL 73-59-38
- (4) New York City (NEW YORK), NY - NL 40-43-43; WL 73-59-44
- (5) New York City (NEW YORK), NY - NL 40-43-45; WL 73-59-49
- (6) Brooklyn (KINGS), NY - NL 40-41-41; WL 73-59-09

Frequency Information

Brooklyn (KINGS), NY - NL 40-41-41; WL 73-59-09

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
28 GHz	FX	5G00A2X	61.09 W (ERP)	
38 GHz	FX	5G00A2X	61.09 W (ERP)	
60 GHz	FX	5G00A2X	193.2 W (ERP)	

This authorization effective November 26, 2019 and
will expire 3:00 A.M. EST December 01, 2023

**FEDERAL
COMMUNICATIONS
COMMISSION**



Frequency Information

Brooklyn (KINGS), NY - NL 40-41-41; WL 73-59-09

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
72 GHz	FX	5G00A2X	63.09 W (ERP)	

Brooklyn (KINGS), NY - NL 40-41-39; WL 73-59-10

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
28 GHz	FX	5G00A2X	61.09 W (ERP)	
38 GHz	FX	5G00A2X	61.09 W (ERP)	
60 GHz	FX	5G00A2W	193.2 W (ERP)	
72 GHz	FX	5G00A2X	63.09 W (ERP)	

New York City (NEW YORK), NY - NL 40-43-45; WL 73-59-38

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
28 GHz	FX	5G00A2X	61.09 W (ERP)	
38 GHz	FX	5G00A2X	61.09 W (ERP)	

Frequency Information

New York City (NEW YORK), NY - NL 40-43-45; WL 73-59-38

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
60 GHz	FX	5G00A2X	193.2 W (ERP)	
72 GHz	FX	5G00A2X	63.09 W (ERP)	

New York City (NEW YORK), NY - NL 40-43-43; WL 73-59-44

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
28 GHz	FX	5G00A2X	61.09 W (ERP)	
38 GHz	FX	5G00A2X	61.09 W (ERP)	
60 GHz	FX	5G00A2X	193.2 W (ERP)	
72 GHz	FX	5G00A2X	63.09 W (ERP)	

New York City (NEW YORK), NY - NL 40-43-45; WL 73-59-49

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
28 GHz	FX	5G00A2X	61.09 W (ERP)	

Frequency Information

New York City (NEW YORK), NY - NL 40-43-45; WL 73-59-49

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
38 GHz	FX	5G00A2X	61.09 W (ERP)	
60 GHz	FX	5G00A2X	193.2 W (ERP)	
72 GHz	FX	5G00A2X	63.09 W (ERP)	

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) Stop Buzzer: Dr. Theodore S. Rappaport at 917-755-9182, tsr@nyu.edu
- (4) Experimental station shall use the minimum power level necessary to establish communications links to minimize potential interference to licensed users.
- (5) Licensee must avoid pointing the transmitting antenna main beam gain within 10 degrees of any point on the geostationary orbital arc while transmitting signals in the 27.5-30 GHz and 37.5-40.5 GHz frequency bands.
- (6) Licensee shall ensure that the transmitting fixed station antenna(s) main beam gain tip down when possible and avoid pointing above the horizon to protect satellite stations.
- (7) Licensee shall coordinate with all of the existing registered links in 71-76 GHz band in each proposed location prior to operation in the frequency bands centered on 72 GHz.
- (8) Licensee shall coordinate with the affected Fixed Microwave Service licensees in each proposed venue prior to operation in the frequency bands centered on 28 GHz and 38 GHz.