

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

EXPERIMENTAL

(Nature of Service)

WI2XQJ

(Call Sign)

XC FX MO

(Class of Station)

0099-EX-CN-2016

(File Number)

NAME Rutgers University Institute of Marine and Coastal Sciences

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(c) of the Commission's Rules

Station Locations

- (1) Brigantine (ATLANTIC), NJ - NL 39-22-44; WL 74-23-56
- (2) Brant Beach (OCEAN), NJ - NL 39-36-55; WL 74-11-54
- (3) Loveladies (OCEAN), NJ - NL 39-44-10; WL 74-07-00
- (4) Cape May (CAPE MAY), NJ - NL 38-56-33; WL 74-53-00
- (5) Sea Bright (MONMOUTH), NJ - NL 40-26-31; WL 73-58-50; MOBILE: , within 25 km
- (6) Siasconset (NANTUCKET), MA - NL 41-14-57; WL 69-58-20
- (7) Block Island (WASHINGTON), RI - NL 41-09-09; WL 71-33-06
- (8) Belmar (MONMOUTH), NJ - NL 40-11-07; WL 74-00-29
- (9) East Moriches (SUFFOLK), NY - NL 40-47-18; WL 72-44-43
- (10) Edgartown (DUKES), MA - NL 41-20-59; WL 70-31-36
- (11) North Wildwood (ATLANTIC), NJ - NL 38-59-26; WL 74-47-59
- (12) Ocean City (CAPE MAY), NJ - NL 39-13-06; WL 74-38-20
- (13) Amagansett (SUFFOLK), NY - NL 40-58-09; WL 72-07-26
- (14) Lewes (SUSSEX), DE - NL 38-47-41; WL 75-05-20
- (15) Upper Township (CAPE MAY), NJ - NL 39-11-56; WL 74-39-10
- (16) Seaside Park (OCEAN), NJ - NL 39-55-58; WL 74-04-21

This authorization effective January 25, 2017 and
will expire 3:00 A.M. EST February 01, 2019

**FEDERAL
COMMUNICATIONS
COMMISSION**



Frequency Information

Brigantine (ATLANTIC), NJ - NL 39-22-44; WL 74-23-56

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
4438-4488 kHz	FX	49K9P0N	40 W (ERP)	
4500 kHz	FX	55K0P0N	40 W (ERP)	
4600 kHz	FX	55K0P0N	40 W (ERP)	
4900 kHz	FX	55K0P0N	40 W (ERP)	
5250-5275 kHz	FX	24K9P0N	45 W (ERP)	0.001 %
13430 kHz	FX	100KP0N	40 W (ERP)	
13450 kHz	FX	100KP0N	40 W (ERP)	
13530 kHz	FX	100KP0N	40 W (ERP)	
16100-16200 kHz	FX	99K5P0N	40 W (ERP)	

Frequency Information

Brant Beach (OCEAN), NJ - NL 39-36-55; WL 74-11-54

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
13430 kHz	FX	100KP0N	40 W (ERP)	
13450 kHz	FX	100KP0N	40 W (ERP)	
13530 kHz	FX	100KP0N	40 W (ERP)	
16100-16200 kHz	FX	99K9P0N	40 W (ERP)	

Loveladies (OCEAN), NJ - NL 39-44-10; WL 74-07-00

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
4438-4488 kHz	FX	49K9P0N	40 W (ERP)	
4500 kHz	FX	55K0P0N	40 W (ERP)	
4550 kHz	FX	55K0P0N	40 W (ERP)	
4800 kHz	FX	55K0P0N	40 W (ERP)	
4900 kHz	FX	55K0P0N	40 W (ERP)	

Frequency Information

Loveladies (OCEAN), NJ - NL 39-44-10; WL 74-07-00

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
5250-5275 kHz	FX	24K9P0N	45 W (ERP)	

Cape May (CAPE MAY), NJ - NL 38-56-33; WL 74-53-00

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
4438-4488 kHz	FX	49K9P0N	40 W (ERP)	
4580 kHz	FX	55K0P0N	40 W (ERP)	
4800 kHz	FX	55K0P0N	40 W (ERP)	
4900 kHz	FX	55K0P0N	40 W (ERP)	
5250-5275 kHz	FX	24K9P0N	45 W (ERP)	0.001 %

Sea Bright (MONMOUTH), NJ - NL 40-26-31; WL 73-58-50; MOBILE: , within 25 km

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
4438-4488 kHz	FX	49K9P0N	40 W (ERP)	

Frequency Information

Sea Bright (MONMOUTH), NJ - NL 40-26-31; WL 73-58-50; MOBILE: , within 25 km

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
4600 kHz	FX	55K0P0N	40 W (ERP)	
4800 kHz	FX	55K0P0N	40 W (ERP)	
4860 kHz	FX	55K0P0N	40 W (ERP)	
5250-5275 kHz	FX	24K9P0N	40 W (ERP)	
13430 kHz	FX	100KP0N	40 W (ERP)	
13450 kHz	FX	100KP0N	40 W (ERP)	
13530 kHz	FX	100KP0N	40 W (ERP)	
16100-16200 kHz	FX	99K9P0N	40 W (ERP)	
24450-24650 kHz	FX	199KP0N	40 W (ERP)	
25100 kHz	FX	170KP0N	40 W (ERP)	

Frequency Information

Sea Bright (MONMOUTH), NJ - NL 40-26-31; WL 73-58-50; MOBILE: , within 25 km

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
25500 kHz	FX	170KP0N	40 W (ERP)	
26200-26420 kHz	FX	200KP0N	40 W (ERP)	

Siasconset (NANTUCKET), MA - NL 41-14-57; WL 69-58-20

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
4438-4488 kHz	FX	49K9P0N	40 W (ERP)	
4500 kHz	FX	55K0P0N	40 W (ERP)	
4800 kHz	FX	55K0P0N	40 W (ERP)	
5250-5275 kHz	FX	24K9P0N	40 W (ERP)	

Block Island (WASHINGTON), RI - NL 41-09-09; WL 71-33-06

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
4438-4488 kHz	FX	49K9P0N	40 W (ERP)	

Frequency Information

Block Island (WASHINGTON), RI - NL 41-09-09; WL 71-33-06

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
4500 kHz	FX	55K0P0N	40 W (ERP)	
4550 kHz	FX	55K0P0N	40 W (ERP)	
5250-5275 kHz	FX	24K9P0N	40 W (ERP)	

Belmar (MONMOUTH), NJ - NL 40-11-07; WL 74-00-29

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
13430 kHz	FX	100KP0N	40 W (ERP)	
13450 kHz	FX	100KP0N	40 W (ERP)	
13530 kHz	FX	100KP0N	40 W (ERP)	
16100-16200 kHz	FX	99K9P0N	40 W (ERP)	

Frequency Information

East Moriches (SUFFOLK), NY - NL 40-47-18; WL 72-44-43

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
4438-4488 kHz	FX	49K9P0N	40 W (ERP)	
4500 kHz	FX	55K0P0N	40 W (ERP)	
4800 kHz	FX	55K0P0N	40 W (ERP)	
5250-5275 kHz	FX	24K9P0N	40 W (ERP)	

Edgartown (DUKES), MA - NL 41-20-59; WL 70-31-36

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
4438-4488 kHz	FX	49K9P0N	40 W (ERP)	
4550 kHz	FX	55K0P0N	40 W (ERP)	
4900 kHz	FX	55K0P0N	40 W (ERP)	
5250-5275 kHz	FX	24K9P0N	40 W (ERP)	

Frequency Information

North Wildwood (ATLANTIC), NJ - NL 38-59-26; WL 74-47-59

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
13430 kHz	FX	100KP0N	40 W (ERP)	
13450 kHz	FX	100KP0N	40 W (ERP)	
13530 kHz	FX	100KP0N	40 W (ERP)	
16100-16200 kHz	FX	99K9P0N	40 W (ERP)	

Ocean City (CAPE MAY), NJ - NL 39-13-06; WL 74-38-20

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
12140 kHz	FX	100KP0N	40 W (ERP)	
13430 kHz	FX	100KP0N	40 W (ERP)	
13450 kHz	FX	100KP0N	40 W (ERP)	
13530 kHz	FX	100KP0N	40 W (ERP)	

Frequency Information

Amagansett (SUFFOLK), NY - NL 40-58-09; WL 72-07-26

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
4438-4488 kHz	FX	49K9P0N	40 W (ERP)	
4600 kHz	FX	55K0P0N	40 W (ERP)	
5250-5275 kHz	FX	24K9P0N	40 W (ERP)	

Lewes (SUSSEX), DE - NL 38-47-41; WL 75-05-20

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
24450-24650 kHz	FX	170KP0N	40 W (ERP)	
25100 kHz	FX	170KP0N	40 W (ERP)	
25500 kHz	FX	170KP0N	40 W (ERP)	
26200-26420 kHz	FX	170KP0N	40 W (ERP)	

Frequency Information

Upper Township (CAPE MAY), NJ - NL 39-11-56; WL 74-39-10

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
13450-13550 kHz	FX	99K9P0N	45 W (ERP)	
16100-16200 kHz	FX	99K9P0N	45 W (ERP)	

Seaside Park (OCEAN), NJ - NL 39-55-58; WL 74-04-21

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
13450-13550 kHz	FX	99K9P0N	45 W (ERP)	
16100-16200 kHz	FX	99K9P0N	45 W (ERP)	

Special Conditions:

- (1) Operation is subject to prior coordination with the local Society of Broadcast Engineers, Inc. (SBE) frequency coordinator. Consult the list at http://freq.sbe.org/pdf_files/coordinators.pdf to find the appropriate coordinator.
- (2) The station identification requirements of Section 5.115 of the Commission's Rules are waived.
- (3) In lieu of frequency tolerance, the occupied bandwidth of the emission shall not extend beyond the band limits set forth above.
- (4) 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.
- (5) Operation is subject to prior operation with the local SBE in 26200-26420 kHz band.
- (6) This authorization is issued for the express purpose of conducting experimental operations described in the related application and required by the U.S. Government; contract number NA16NOS0120020. 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.