

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

EXPERIMENTAL

(Nature of Service)

WA2XXF

(Call Sign)

XR FX MO

(Class of Station)

0082-EX-ML-2004

(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(a) of the Commission's Rules

Station Locations

- (1) Brigantine (ATLANTIC), NJ - NL 39-24-24; WL 74-21-54; MOBILE: , within 70 km
- (2) Brant Beach (OCEAN), NJ - NL 39-36-33; WL 74-12-14; MOBILE: within 70 km, centered around NL 39-36-33; WL 74-12-14
- (3) Loveladies (OCEAN), NJ - NL 39-44-10; WL 74-07-00
- (4) Wildwood (CAPE MAY), NJ - NL 38-57-00; WL 74-51-30
- (5) Seaside Park (OCEAN), NJ - NL 39-52-22; WL 74-05-00
- (6) Sea Bright (MONMOUTH), NJ - NL 40-26-31; WL 73-58-50
- (7) Tuckerton (OCEAN), NJ - NL 39-30-32; WL 74-19-29
- (8) Siasconset (NANTUCKET), MA - NL 41-14-57; WL 69-58-20
- (9) Block Island (WASHINGTON), RI - NL 41-09-09; WL 71-33-06
- (10) New York (NEW YORK), NY - NL 40-33-41; WL 73-52-59
- (11) Staten Island (RICHMOND), NY - NL 40-32-36; WL 74-07-29
- (12) Belmar (MONMOUTH), NJ - NL 40-11-07; WL 74-00-29

Frequency Information

Brigantine (ATLANTIC), NJ - NL 39-24-24; WL 74-21-54; MOBILE: , within 70 km

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
4800 KHZ	FX	55K0P0N	40 W (ERP)	0.001 %

This authorization effective December 14, 2004 and
will expire 3:00 A.M. EST March 01, 2006

**FEDERAL
COMMUNICATIONS
COMMISSION**



Frequency Information

Brigantine (ATLANTIC), NJ - NL 39-24-24; WL 74-21-54; MOBILE: , within 70 km

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
4900 KHZ	FX	55K0P0N	40 W (ERP)	0.001 %
24700 KHZ	MO	170KP0N	40 W (ERP)	0.001 %
24700 KHZ	FX	170KP0N	40 W (ERP)	0.001 %
25100 KHZ	FX	170KP0N	40 W (ERP)	0.001 %
25100 KHZ	MO	170KP0N	40 W (ERP)	0.001 %
25500 KHZ	FX	170KP0N	40 W (ERP)	0.001 %
25500 KHZ	MO	170KP0N	40 W (ERP)	0.001 %
25900 KHZ	FX	170KP0N	40 W (ERP)	0.001 %
25900 KHZ	MO	170KP0N	40 W (ERP)	0.001 %

Frequency Information

Brant Beach (OCEAN), NJ - NL 39-36-33; WL 74-12-14; MOBILE:within 70 km, centered around NL 39-36-33; WL 74-12-14

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
24700 KHZ	MO	170KP0N	40 W (ERP)	0.001 %
24700 KHZ	FX	170KP0N	40 W (ERP)	0.001 %
25100 KHZ	FX	170KP0N	40 W (ERP)	0.001 %
25100 KHZ	MO	170KP0N	40 W (ERP)	0.001 %
25500 KHZ	MO	170KP0N	40 W (ERP)	0.001 %
25500 KHZ	FX	170KP0N	40 W (ERP)	0.001 %
25900 KHZ	FX	170KP0N	40 W (ERP)	0.001 %
25900 KHZ	MO	170KP0N	40 W (ERP)	0.001 %

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

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
4660 KHZ	FX	55K0P0N	40 W (ERP)	0.001 %

Frequency Information

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

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
4700 KHZ	FX	55K0P0N	40 W (ERP)	0.001 %
4800 KHZ	FX	55K0P0N	40 W (ERP)	0.001 %
5900 KHZ	FX	55K0P0N	40 W (ERP)	0.001 %

Wildwood (CAPE MAY), NJ - NL 38-57-00; WL 74-51-30

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
4400 KHZ	FX	55K0P0N	40 W (ERP)	0.001 %
4580 KHZ	FX	55K0P0N	40 W (ERP)	0.001 %
4700 KHZ	FX	55K0P0N	40 W (ERP)	0.001 %
4800 KHZ	FX	55K0P0N	40 W (ERP)	0.001 %
4900 KHZ	FX	55K0P0N	40 W (ERP)	0.001 %

Frequency Information

Seaside Park (OCEAN), NJ - NL 39-52-22; WL 74-05-00

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
4400 KHZ	FX	55K0P0N	40 W (ERP)	0.001 %
4600 KHZ	FX	55K0P0N	40 W (ERP)	0.001 %
4800 KHZ	FX	55K0P0N	40 W (ERP)	0.001 %
4900 KHZ	FX	55K0P0N	40 W (ERP)	0.001 %
5100 MHz	FX	55K0P0N	40 W (ERP)	0.001 %

Sea Bright (MONMOUTH), NJ - NL 40-26-31; WL 73-58-50

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
4550 KHZ	FX	55K0P0N	40 W (ERP)	0.001 %
4600 KHZ	FX	55K0P0N	40 W (ERP)	0.001 %
4800 KHZ	FX	55K0P0N	40 W (ERP)	0.001 %
4860 KHZ	FX	55K0P0N	40 W (ERP)	0.001 %

Frequency Information

Sea Bright (MONMOUTH), NJ - NL 40-26-31; WL 73-58-50

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
4900 KHZ	FX	55K0P0N	40 W (ERP)	0.001 %
13430 KHZ	FX	100KP0N	40 W (ERP)	0.001 %
13450 KHZ	FX	100KP0N	40 W (ERP)	0.001 %
13530 KHZ	FX	100KP0N	40 W (ERP)	0.001 %
24700 KHZ	FX	170KP0N	40 W (ERP)	0.001 %
25100 KHZ	FX	170KP0N	40 W (ERP)	0.001 %
25500 KHZ	FX	170KP0N	40 W (ERP)	0.001 %
25900 KHZ	FX	170KP0N	40 W (ERP)	0.001 %

Tuckerton (OCEAN), NJ - NL 39-30-32; WL 74-19-29

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
4470 KHZ	FX	55K0P0N	40 W (ERP)	0.001 %

Frequency Information

Tuckerton (OCEAN), NJ - NL 39-30-32; WL 74-19-29

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
4550 KHZ	FX	55K0P0N	40 W (ERP)	0.001 %
4800 KHZ	FX	55K0P0N	40 W (ERP)	0.001 %
4900 KHZ	FX	55K0P0N	40 W (ERP)	0.001 %

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

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
4470 KHZ	FX	55K0P0N	40 W (ERP)	0.001 %
4550 KHZ	FX	55K0P0N	40 W (ERP)	0.001 %
4800 KHZ	FX	55K0P0N	40 W (ERP)	0.001 %
4900 KHZ	FX	55K0P0N	40 W (ERP)	0.001 %

Frequency Information

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

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
4470 KHZ	FX	55K0P0N	40 W (ERP)	0.001 %
4550 KHZ	FX	55K0P0N	40 W (ERP)	0.001 %
4800 KHZ	FX	55K0P0N	40 W (ERP)	0.001 %
4900 KHZ	FX	55K0P0N	40 W (ERP)	0.001 %

New York (NEW YORK), NY - NL 40-33-41; WL 73-52-59

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
24700 KHZ	FX	170KP0N	40 W (ERP)	0.001 %
25100 KHZ	FX	170KP0N	40 W (ERP)	0.001 %
25500 KHZ	FX	170KP0N	40 W (ERP)	0.001 %
25900 KHZ	FX	170KP0N	40 W (ERP)	0.001 %

Frequency Information

Staten Island (RICHMOND), NY - NL 40-32-36; WL 74-07-29

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
24700 kHz	FX	170KP0N	40 W (ERP)	0.001 %
25100 kHz	FX	170KP0N	40 W (ERP)	0.001 %
25500 kHz	FX	170KP0N	40 W (ERP)	0.001 %
25900 kHz	FX	170KP0N	40 W (ERP)	0.001 %

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

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
24700 kHz	FX	170KP0N	40 W (ERP)	0.001 %
25100 kHz	FX	170KP0N	40 W (ERP)	0.001 %
25500 kHz	FX	170KP0N	40 W (ERP)	0.001 %
25900 kHz	FX	170KP0N	40 W (ERP)	0.001 %

Special Conditions:

- (1) The station identification requirements of Section 5.115 of the Commission's Rules are waived.
- (2) This license is granted, in part.