

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

EXPERIMENTAL

(Nature of Service)

WC2XYM

(Call Sign)

XR FX MO

(Class of Station)

0061-EX-ML-2005

(File Number)

NAME Scripps Institution of Oceanography, U.C. San Diego

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) Imperial Beach (SAN DIEGO), CA - NL 32-32-09; WL 117-07-32; MOBILE: , within 5 km
- (2) Point Loma (SAN DIEGO), CA - NL 32-39-50; WL 117-14-28; MOBILE: , within 5 km
- (3) La Jolla (SAN DIEGO), CA - NL 32-52-00; WL 117-15-24; MOBILE: within 5 km
- (4) San Clemente Island, CA - NL 33-00-15; WL 118-33-15; MOBILE: within 5 km
- (5) Point Estero (SAN LUIS OBISPO), CA - NL 35-27-40; WL 121-00-11; MOBILE: , within 5 km
- (6) Point Buchon (SAN LUIS OBISPO), CA - NL 35-14-49; WL 120-53-37; MOBILE: , within 5 km
- (7) Point San Luis (SAN LUIS OBISPO), CA - NL 35-09-37; WL 120-45-24; MOBILE: , within 5 km
- (8) Point Sal (SANTA BARBARA), CA - NL 34-54-08; WL 120-40-15; MOBILE: , within 5 km
- (9) Point Arguello (SANTA BARBARA), CA - NL 34-33-38; WL 120-38-10; MOBILE: , within 5 km
- (10) Point Mugu (VENTURA), CA - NL 34-08-00; WL 119-10-00; MOBILE: , within 5 km
- (11) Ventura (VENTURA), CA - NL 34-02-28; WL 118-56-17; MOBILE: , within 5 km
- (12) San Pedro Point (SANTA CRUZ), CA - NL 34-02-03; WL 119-31-16; MOBILE: , within 5 km
- (13) Point Dume (LOS ANGELES), CA - NL 34-00-05; WL 118-48-24; MOBILE: , within 5 km
- (14) Point Vicente (LOS ANGELES), CA - NL 33-44-29; WL 118-24-40; MOBILE: , within 5 km
- (15) Point Fermin (LOS ANGELES), CA - NL 33-42-17; WL 118-17-40; MOBILE: , within 5 km
- (16) Huntington Beach (ORANGE), CA - NL 33-44-28; WL 118-06-51; MOBILE: , within 5 km
- (17) Newport Beach (ORANGE), CA - NL 33-36-26; WL 117-55-46; MOBILE: , within 5 km

This authorization effective February 10, 2006 and
will expire 3:00 A.M. EST June 02, 2007

**FEDERAL
COMMUNICATIONS
COMMISSION**

Station Locations

(18) Dana Point (ORANGE), CA - NL 33-27-37; WL 117-42-53; MOBILE: , within 5 km

(19) Santa Catalina (ORANGE), CA - NL 33-24-24; WL 118-22-01; MOBILE: , within 5 km

(20) Oceanside (SAN DIEGO), CA - NL 33-13-59; WL 117-25-03; MOBILE: , within 5 km

(21) Cardiff (SAN DIEGO), CA - NL 33-00-13; WL 117-16-58; MOBILE: , within 5 km

Frequency Information

Imperial Beach (SAN DIEGO), CA - NL 32-32-09; WL 117-07-32; MOBILE: , within 5 km

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
4300 KHZ	FX	100KP0N	40 W (ERP)	0.001 %
4400 KHZ	FX	100KP0N	40 W (ERP)	0.001 %
5200 KHZ	FX	100KP0N	40 W (ERP)	0.001 %
13500 KHZ	FX	150KP0N	40 W (ERP)	0.001 %
24700 KHZ	FX	500KP0N	40 W (ERP)	0.001 %
25100 KHZ	FX	500KP0N	40 W (ERP)	0.001 %
25500 KHZ	FX	500KP0N	40 W (ERP)	0.001 %
25900 KHZ	FX	500KP0N	40 W (ERP)	0.001 %
26300 KHZ	FX	500KP0N	40 W (ERP)	0.001 %

Frequency Information

Imperial Beach (SAN DIEGO), CA - NL 32-32-09; WL 117-07-32; MOBILE: , within 5 km

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
26700 kHz	FX	500KP0N	40 W (ERP)	0.001 %

Point Loma (SAN DIEGO), CA - NL 32-39-50; WL 117-14-28; MOBILE: , within 5 km

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
4300 kHz	FX	100KP0N	40 W (ERP)	0.001 %
4400 kHz	FX	100KP0N	40 W (ERP)	0.001 %
5100 kHz	FX	100KP0N	40 W (ERP)	0.001 %
5200 kHz	FX	100KP0N	40 W (ERP)	0.001 %
13500 kHz	FX	150KP0N	40 W (ERP)	0.001 %
24700 kHz	FX	500KP0N	40 W (ERP)	0.001 %
25100 kHz	FX	500KP0N	40 W (ERP)	0.001 %
25500 kHz	FX	500KP0N	40 W (ERP)	0.001 %

Frequency Information

Point Loma (SAN DIEGO), CA - NL 32-39-50; WL 117-14-28; MOBILE: , within 5 km

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
25900 KHZ	FX	500KP0N	40 W (ERP)	0.001 %
26300 KHZ	FX	500KP0N	40 W (ERP)	0.001 %
26700 KHZ	FX	500KP0N	40 W (ERP)	0.001 %

La Jolla (SAN DIEGO), CA - NL 32-52-00; WL 117-15-24; MOBILE:within 5 km

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
4300 KHZ	FX	100KP0N	40 W (ERP)	0.001 %
4400 KHZ	FX	100KP0N	40 W (ERP)	0.001 %
5100 KHZ	FX	100KP0N	40 W (ERP)	0.001 %
5200 KHZ	FX	100KP0N	40 W (ERP)	0.001 %
13500 KHZ	FX	150KP0N	40 W (ERP)	0.001 %
24700 KHZ	FX	500KP0N	40 W (ERP)	0.001 %

Frequency Information

La Jolla (SAN DIEGO), CA - NL 32-52-00; WL 117-15-24; MOBILE:within 5 km

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
25100 KHZ	FX	500KP0N	40 W (ERP)	0.001 %
25500 KHZ	FX	500KP0N	40 W (ERP)	0.001 %
25900 KHZ	FX	500KP0N	40 W (ERP)	0.001 %
26300 KHZ	FX	500KP0N	40 W (ERP)	0.001 %
26700 KHZ	FX	500KP0N	40 W (ERP)	0.001 %

San Clemente Island, CA - NL 33-00-15; WL 118-33-15; MOBILE:within 5 km

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
4300 KHZ	FX	100KP0N	40 W (ERP)	0.001 %
4400 KHZ	FX	100KP0N	40 W (ERP)	0.001 %
5100 KHZ	FX	100KP0N	40 W (ERP)	0.001 %
5200 KHZ	FX	100KP0N	40 W (ERP)	0.001 %

Frequency Information

San Clemente Island, CA - NL 33-00-15; WL 118-33-15; MOBILE:within 5 km

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
13500 KHZ	FX	150KP0N	40 W (ERP)	0.001 %
25900 KHZ	FX	500KP0N	40 W (ERP)	0.001 %
26300 KHZ	FX	500KP0N	40 W (ERP)	0.001 %

Point Estero (SAN LUIS OBISPO), CA - NL 35-27-40; WL 121-00-11; MOBILE: , within 5 km

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
4300 KHZ	FX	100KP0N	40 W (ERP)	0.001 %
4400 KHZ	FX	100KP0N	40 W (ERP)	0.001 %
5200 KHZ	FX	100KP0N	40 W (ERP)	0.001 %
13500 KHZ	FX	150KP0N	40 W (ERP)	0.001 %
25900 KHZ	FX	500KP0N	40 W (ERP)	0.001 %
26300 KHZ	FX	500KP0N	40 W (ERP)	0.001 %

Frequency Information

Point Buchon (SAN LUIS OBISPO), CA - NL 35-14-49; WL 120-53-37; MOBILE: , within 5 km

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
4300 KHZ	FX	100KP0N	40 W (ERP)	0.001 %
4400 KHZ	FX	100KP0N	40 W (ERP)	0.001 %
5200 KHZ	FX	100KP0N	40 W (ERP)	0.001 %
13500 KHZ	FX	150KP0N	40 W (ERP)	0.001 %
25900 KHZ	FX	500KP0N	40 W (ERP)	0.001 %
26300 KHZ	FX	500KP0N	40 W (ERP)	0.001 %

Point San Luis (SAN LUIS OBISPO), CA - NL 35-09-37; WL 120-45-24; MOBILE: , within 5 km

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
4300 KHZ	FX	100KP0N	40 W (ERP)	0.001 %
4400 KHZ	FX	100KP0N	40 W (ERP)	0.001 %
5200 KHZ	FX	100KP0N	40 W (ERP)	0.001 %

Frequency Information

Point San Luis (SAN LUIS OBISPO), CA - NL 35-09-37; WL 120-45-24; MOBILE: , within 5 km

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
13500 KHZ	FX	150KP0N	40 W (ERP)	0.001 %
25900 KHZ	FX	500KP0N	40 W (ERP)	0.001 %
26300 KHZ	FX	500KP0N	40 W (ERP)	0.001 %

Point Sal (SANTA BARBARA), CA - NL 34-54-08; WL 120-40-15; MOBILE: , within 5 km

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
4300 KHZ	FX	100KP0N	40 W (ERP)	0.001 %
4400 KHZ	FX	100KP0N	40 W (ERP)	0.001 %
5200 KHZ	FX	100KP0N	40 W (ERP)	0.001 %
13500 KHZ	FX	150KP0N	40 W (ERP)	0.001 %
25900 KHZ	FX	500KP0N	40 W (ERP)	0.001 %
26300 KHZ	FX	500KP0N	40 W (ERP)	0.001 %

Frequency Information

Point Arguello (SANTA BARBARA), CA - NL 34-33-38; WL 120-38-10; MOBILE: , within 5 km

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
4300 KHZ	FX	100KP0N	40 W (ERP)	0.001 %
4400 KHZ	FX	100KP0N	40 W (ERP)	0.001 %
5200 KHZ	FX	100KP0N	40 W (ERP)	0.001 %
13500 KHZ	FX	150KP0N	40 W (ERP)	0.001 %
25900 KHZ	FX	500KP0N	40 W (ERP)	0.001 %
26300 KHZ	FX	500KP0N	40 W (ERP)	0.001 %

Point Mugu (VENTURA), CA - NL 34-08-00; WL 119-10-00; MOBILE: , within 5 km

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
4300 KHZ	FX	100KP0N	40 W (ERP)	0.001 %
4400 KHZ	FX	100KP0N	40 W (ERP)	0.001 %
5200 KHZ	FX	100KP0N	40 W (ERP)	0.001 %

Frequency Information

Point Mugu (VENTURA), CA - NL 34-08-00; WL 119-10-00; MOBILE: , within 5 km

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
13500 KHZ	FX	150KP0N	40 W (ERP)	0.001 %
25900 KHZ	FX	500KP0N	40 W (ERP)	0.001 %
26300 KHZ	FX	500KP0N	40 W (ERP)	0.001 %

Ventura (VENTURA), CA - NL 34-02-28; WL 118-56-17; MOBILE: , within 5 km

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
4300 KHZ	FX	100KP0N	40 W (ERP)	0.001 %
4400 KHZ	FX	100KP0N	40 W (ERP)	0.001 %
5200 KHZ	FX	100KP0N	40 W (ERP)	0.001 %
13500 KHZ	FX	150KP0N	40 W (ERP)	0.001 %
24700 KHZ	FX	500KP0N	40 W (ERP)	0.001 %
25900 KHZ	FX	500KP0N	40 W (ERP)	0.001 %

Frequency Information

Ventura (VENTURA), CA - NL 34-02-28; WL 118-56-17; MOBILE: , within 5 km

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
26300 KHZ	FX	500KP0N	40 W (ERP)	0.001 %

San Pedro Point (SANTA CRUZ), CA - NL 34-02-03; WL 119-31-16; MOBILE: , within 5 km

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
4300 KHZ	FX	100KP0N	40 W (ERP)	0.001 %
4400 KHZ	FX	100KP0N	40 W (ERP)	0.001 %
5200 KHZ	FX	100KP0N	40 W (ERP)	0.001 %
13500 KHZ	FX	150KP0N	40 W (ERP)	0.001 %
25900 KHZ	FX	500KP0N	40 W (ERP)	0.001 %
26300 KHZ	FX	500KP0N	40 W (ERP)	0.001 %

Frequency Information

Point Dume (LOS ANGELES), CA - NL 34-00-05; WL 118-48-24; MOBILE: , within 5 km

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
4300 KHZ	FX	100KP0N	40 W (ERP)	0.001 %
4400 KHZ	FX	100KP0N	40 W (ERP)	0.001 %
5200 KHZ	FX	100KP0N	40 W (ERP)	0.001 %
13500 KHZ	FX	150KP0N	40 W (ERP)	0.001 %
25900 KHZ	FX	500KP0N	40 W (ERP)	0.001 %
26300 KHZ	FX	500KP0N	40 W (ERP)	0.001 %

Point Vicente (LOS ANGELES), CA - NL 33-44-29; WL 118-24-40; MOBILE: , within 5 km

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
4300 KHZ	FX	100KP0N	40 W (ERP)	0.001 %
4400 KHZ	FX	100KP0N	40 W (ERP)	0.001 %
5200 KHZ	FX	100KP0N	40 W (ERP)	0.001 %

Frequency Information

Point Vicente (LOS ANGELES), CA - NL 33-44-29; WL 118-24-40; MOBILE: , within 5 km

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
13500 KHZ	FX	150KP0N	40 W (ERP)	0.001 %
25900 KHZ	FX	500KP0N	40 W (ERP)	0.001 %
26300 KHZ	FX	500KP0N	40 W (ERP)	0.001 %

Point Fermin (LOS ANGELES), CA - NL 33-42-17; WL 118-17-40; MOBILE: , within 5 km

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
4300 KHZ	FX	100KP0N	40 W (ERP)	0.001 %
4400 KHZ	FX	100KP0N	40 W (ERP)	0.001 %
5200 KHZ	FX	100KP0N	40 W (ERP)	0.001 %
13500 KHZ	FX	150KP0N	40 W (ERP)	0.001 %
25900 KHZ	FX	500KP0N	40 W (ERP)	0.001 %
26300 KHZ	FX	500KP0N	40 W (ERP)	0.001 %

Frequency Information

Huntington Beach (ORANGE), CA - NL 33-44-28; WL 118-06-51; MOBILE: , within 5 km

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
4300 KHZ	FX	100KP0N	40 W (ERP)	0.001 %
4400 KHZ	FX	100KP0N	40 W (ERP)	0.001 %
5200 KHZ	FX	100KP0N	40 W (ERP)	0.001 %
13500 KHZ	FX	150KP0N	40 W (ERP)	0.001 %
25900 KHZ	FX	500KP0N	40 W (ERP)	0.001 %
26300 KHZ	FX	500KP0N	40 W (ERP)	0.001 %

Newport Beach (ORANGE), CA - NL 33-36-26; WL 117-55-46; MOBILE: , within 5 km

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
4300 KHZ	FX	100KP0N	40 W (ERP)	0.001 %
4400 KHZ	FX	100KP0N	40 W (ERP)	0.001 %
5200 KHZ	FX	100KP0N	40 W (ERP)	0.001 %

Frequency Information

Newport Beach (ORANGE), CA - NL 33-36-26; WL 117-55-46; MOBILE: , within 5 km

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
13500 KHZ	FX	150KP0N	40 W (ERP)	0.001 %
25900 KHZ	FX	500KP0N	40 W (ERP)	0.001 %
26300 KHZ	FX	500KP0N	40 W (ERP)	0.001 %

Dana Point (ORANGE), CA - NL 33-27-37; WL 117-42-53; MOBILE: , within 5 km

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
4300 KHZ	FX	100KP0N	40 W (ERP)	0.001 %
4400 KHZ	FX	100KP0N	40 W (ERP)	0.001 %
5200 KHZ	FX	100KP0N	40 W (ERP)	0.001 %
13500 KHZ	FX	150KP0N	40 W (ERP)	0.001 %
25900 KHZ	FX	500KP0N	40 W (ERP)	0.001 %
26300 KHZ	FX	500KP0N	40 W (ERP)	0.001 %

Frequency Information

Santa Catalina (ORANGE), CA - NL 33-24-24; WL 118-22-01; MOBILE: , within 5 km

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
4300 KHZ	FX	100KP0N	40 W (ERP)	0.001 %
4400 KHZ	FX	100KP0N	40 W (ERP)	0.001 %
5200 KHZ	FX	100KP0N	40 W (ERP)	0.001 %
13500 KHZ	FX	150KP0N	40 W (ERP)	0.001 %
25900 KHZ	FX	500KP0N	40 W (ERP)	0.001 %
26300 KHZ	FX	500KP0N	40 W (ERP)	0.001 %

Oceanside (SAN DIEGO), CA - NL 33-13-59; WL 117-25-03; MOBILE: , within 5 km

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
4300 KHZ	FX	100KP0N	40 W (ERP)	0.001 %
4400 KHZ	FX	100KP0N	40 W (ERP)	0.001 %
5200 KHZ	FX	100KP0N	40 W (ERP)	0.001 %

Frequency Information

Oceanside (SAN DIEGO), CA - NL 33-13-59; WL 117-25-03; MOBILE: , within 5 km

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
13500 KHZ	FX	150KP0N	40 W (ERP)	0.001 %
25900 KHZ	FX	500KP0N	40 W (ERP)	0.001 %
26300 KHZ	FX	500KP0N	40 W (ERP)	0.001 %

Cardiff (SAN DIEGO), CA - NL 33-00-13; WL 117-16-58; MOBILE: , within 5 km

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
4300 KHZ	FX	100KP0N	40 W (ERP)	0.001 %
4400 KHZ	FX	100KP0N	40 W (ERP)	0.001 %
5200 KHZ	FX	100KP0N	40 W (ERP)	0.001 %
13500 KHZ	FX	150KP0N	40 W (ERP)	0.001 %
25900 KHZ	FX	500KP0N	40 W (ERP)	0.001 %
26300 KHZ	FX	500KP0N	40 W (ERP)	0.001 %

Special Conditions:

- (1) The station identification requirements of Section 5.115 of the Commission's Rules are waived.
- (2) Operation is subject to prior coordination with the Society of Broadcast Engineers, Inc. (SBE); ATTN: Executive Director; 9247 North Meridian Street, Suite 305; Indianapolis, IN 46260; telephone, (866) 632-4222; FAX, (317) 846-9120; e-mail, executivedir@sbe.org; information, www.sbe.org.