

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

EXPERIMENTAL

(Nature of Service)

XT FX

(Class of Station)

WS9XFQ

(Call Sign)

0773-EX-ST-2021

(File Number)

NAME Cubic Corporation

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:

Cubic plans to perform a demonstration of the HALO system for our AFRL customer. Frequency authorization is requested to complete practice/dry run testing and system demonstration in the

Station Locations

- (1) San Diego (SAN DIEGO), CA - NL 32-49-16; WL 117-07-52
- (2) San Diego (SAN DIEGO), CA - NL 32-49-18; WL 117-07-52
- (3) San Diego (SAN DIEGO), CA - NL 32-49-11; WL 117-07-49
- (4) San Diego (SAN DIEGO), CA - NL 32-49-17; WL 117-07-46
- (5) San Diego (SAN DIEGO), CA - NL 32-49-16; WL 117-07-46
- (6) San Diego (SAN DIEGO), CA - NL 32-49-18; WL 117-07-48
- (7) San Diego (SAN DIEGO), CA - NL 32-49-18; WL 117-07-48
- (8) San Diego (SAN DIEGO), CA - NL 32-49-16; WL 117-07-52
- (9) San Diego (SAN DIEGO), CA - NL 32-49-09; WL 117-07-52

Frequency Information

San Diego (SAN DIEGO), CA - NL 32-49-16; WL 117-07-52

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
14.83-15.15 GHz	FX	34M3G1D	62.3 kW (ERP)	0.00001 %

This authorization effective August 01, 2021 and
will expire 3:00 A.M. EST February 01, 2022

**FEDERAL
COMMUNICATIONS
COMMISSION**



Frequency Information

San Diego (SAN DIEGO), CA - NL 32-49-18; WL 117-07-52

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
14.83-15.15 GHz	FX	34M3G1D	62.3 kW (ERP)	0.00001 %

San Diego (SAN DIEGO), CA - NL 32-49-11; WL 117-07-49

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
14.83-15.15 GHz	FX	34M3G1D	1.93 W (ERP)	0.00001 %

San Diego (SAN DIEGO), CA - NL 32-49-17; WL 117-07-46

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
14.83-15.15 GHz	FX	34M3G1D	1.93 W (ERP)	0.0001 %

San Diego (SAN DIEGO), CA - NL 32-49-16; WL 117-07-46

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
14.83-15.15 GHz	FX	34M3G1D	2 W (ERP)	0.00001 %

Frequency Information

San Diego (SAN DIEGO), CA - NL 32-49-18; WL 117-07-48

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
14.83-15.15 MHz	FX	34M3G1D	62.3 kW (ERP)	0.00001 %

San Diego (SAN DIEGO), CA - NL 32-49-18; WL 117-07-48

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
14.83-15.15 MHz	FX	34M3G1D	62.3 kW (ERP)	0.00001 %

San Diego (SAN DIEGO), CA - NL 32-49-16; WL 117-07-52

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
14.83-15.15 GHz	FX	34M3G1D	62.3 kW (ERP)	0.00001 %

San Diego (SAN DIEGO), CA - NL 32-49-09; WL 117-07-52

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
14.83-15.15 GHz	FX	34M3G1D	62.3 kW (ERP)	0.00001 %

Special Conditions:

- (1) The stop buzzer: Alan Schumann
Phone: 858-810-5756
Email: alan.schumann@cubic.com

Special Conditions:

- (2) Prior to commencing any operations in the 14.4-14.5 GHz frequency band, experimental licensee must notify licensees of earth stations. The notice must include the name and contact information of the stop buzzer personnel that will be available to cease operations in the event of reported interference. The notification should include the testing parameters (specific location(s), antenna gain(s), antenna height(s), antenna orientation, EIRP, EIRP density) and day and times of each test. Please notify the following licensees:

For operations at power level of 62.3kW (ERP):

Call Sign: E150147

Frequency bands: 14-14.5 GHz

Licensee: Station Venture Operations, LP

ATTN: Margaret L Tobey

Phone: 202-524-6401 Fax: 202-524-6411 E-Mail: margaret.tobey@nbcuni.com

Site Contact: Satellite Operations 212-664-1900

Call Sign: E000329

Frequency bands: 14-14.5 GHz

Licensee: iHeartMedia + Entertainment, Inc.

ATTN: FCC Contact

Phone: 918-664-4581 Fax: 918-664-3066 E-Mail: fcccontact@iheartmedia.com

Counsel: IHEARTMEDIA, INC. Phone: 210-822-2828

Call Sign: E000002

Frequency bands: 14-14.5 GHz

Licensee: L-3 Communications Corporation Linkabit Division

ATTN: Mark Monte

Phone: 858-552-9287 Fax: E-Mail: mark.monte@l-3.com

Site Contact: MARK MONTE 858-552-9587

Call Sign: E000166

Frequency bands: 14-14.5 GHz

Licensee: HNS License Sub, LLC

ATTN: Jodi Goldberg

Phone: 301-428-7140 Fax: 301-428-2818 E-Mail: jodi.goldberg@echostar.com

Site Contact: BILL MCHARGUE 301-428-7205

Call Sign: E950402

Frequency bands: 14-14.5 GHz

Licensee: Scripps Broadcasting Holdings LLC

ATTN: Kenneth C. Howard

Phone: 513-977-3000 E-Mail: dave.giles@scripps.com

Site Contact: RON EDEN 619-237-1010

Call Sign: E100010

Frequency bands: 14-14.5 GHz

Licensee: UCSD Scripps Institution of Oceanography

ATTN: Mr Jonathan Berger

Phone: 858-534-2889 E-Mail: jberger@ucsd.edu

Site Contact: Steve Foley 858-534-5090

Special Call Sign: E202209

Frequency bands: 14-14.5 GHz

Licensee: General Atomics Aeronautical Systems, Inc.

ATTN: Erica Emel

Phone: 858-879-5167 Fax: 858-312-2920 E-Mail: erica.emel@ga-asi.com

Site Contact: Flightline Operations Manager 661-224-5960

Call Sign: E970146

Frequency bands: 14-14.5 GHz

Licensee: Northrop Grumman Systems Corporation

ATTN: DAVID R. SIDDALL

Phone: 202-408-6429 Fax: 202-408-6399 E-Mail: dsiddall@sonnenschein.com

Site Contact: RICHARD HOHOL 858-618-4427

Call Sign: E070018, E120117, E120194, E010274, E110170, E080024, E030131, E110178, E120060

Frequency bands: 14-14.5 GHz

Licensee: Viasat, Inc.

ATTN: Mr Daryl T Hunter, P. E.

Phone: 760-476-2583 Fax: 760-929-3941 E-Mail: daryl.hunter@viasat.com

Site Contact: Daryl T. Hunter, P.E. 760-476-2583

- (3) Cubic Corporation must notch out the following:
 - a. 14400 - 14830 MHz band
 - b. 15150 - 15350 MHz band
- (4) All transmissions using an ERP of 62.3kW shall be disabled when pointing within +/- 15.0 degrees elevation of the geostationary arc from 41 degrees West Longitude through 174 degrees West Longitude.
- (5) Cubic Corporation take care to avoid out-of-band emissions into the 15.35-15.40 GHz band.