

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

EXPERIMENTAL

(Nature of Service)

XT FX

(Class of Station)

WS9XOJ

(Call Sign)

1308-EX-ST-2021

(File Number)

NAME O3b Limited

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:

O3b seeks an STA for a period of six months, beginning on September 23, 2021, to permit O3b to operate one CGC 5.5-meter antenna in El Mirage, AZ for testing and evaluation purposes.

Station Locations

(1) El Mirage (MARICOPA), AZ - NL 33-33-48; WL 112-20-15

Frequency Information

El Mirage (MARICOPA), AZ - NL 33-33-48; WL 112-20-15

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
28.4-28.6 GHz	FX	54M0G7D 200MG7D	150000000 W (ERP)	0.5 %
29.5-30 GHz	FX	54M0G7D 500MG7D	150000000 W (ERP)	0.5 %

This authorization effective September 23, 2021 and
will expire 3:00 A.M. EST March 24, 2022

**FEDERAL
COMMUNICATIONS
COMMISSION**



Special Conditions:

- (1) 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.
- (2) In lieu of frequency tolerance, the occupied bandwidth of the emission shall not extend beyond the band limits set forth above.
- (3) Licensee must successfully coordinate with Fixed Microwave Service licensees in the proposed area in accordance with 47 C.F.R, Part 101.103(d) prior to commencing experimental operations.
- (4) Licensee is authorized to conduct tests on one CGC 5.5 meter antenna with SES Americom, Inc.'s AMC-15 satellite in the 28.4-28.6 GHz and 29.5-30 GHz frequency bands.
- (5) Points of Communication: AMC-15 satellite at 105.05° W.L. (Call Sign S2180) operating in the 28.4-28.6 GHz and 29.5-30 GHz frequency bands.
- (6) No automatic renewal for this license.
- (7) The operation of the CGC 5.5-meter antenna is limited to the following:

Frequency band density:	Emission	Authorized power	EIRP	EIRP
28.4-28.6 GHz dMW/4kHz	54M0G7D	16032453.9 W (ERP)	74.2 dBW	32.9
29.5-30 GHz dMW/4kHz	54M0G7D	16032453.9 W (ERP)	74.2 dBW	32.9
28.4-28.6 GHz dMW/4kHz	200MG7D	59566214.3W (ERP)	79.9 dBW	32.9
29.5-30 GHz dMW/4kHz	500MG7D	150000000W (ERP)	83.9 dBW	32.9

- (8) This authorization SUPERSEDES the previously issued authorization with the same call sign and file number to limit the operation of the CGC 5.5-meter antenna.