

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

EXPERIMENTAL

(Nature of Service)

WN9XTR

(Call Sign)

XT MO

(Class of Station)

0573-EX-ST-2019

(File Number)

NAME Physical Optics 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:

To test transceiver and ability to send and receive signals over the ocean

Station Locations

- (1) MOBILE: , within 4 km, centered around NL 33-42-40; WL 118-17-37
- (2) MOBILE: , within 4 km, centered around NL 33-42-40; WL 118-17-37

Frequency Information

MOBILE: , within 4 km, centered around NL 33-42-40; WL 118-17-37

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
3-30 MHz	MO	27M0A1C	1000 W (ERP)	5 %
450-460 MHz	MO	10M0A1C	1000 W (ERP)	5 %

This authorization effective May 16, 2019 and
will expire 3:00 A.M. EST November 01, 2019

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COMMUNICATIONS
COMMISSION**



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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) Physical Optics Corporation must notch out the following:
 - 2850 - 3026.8 kHz
 - 3383.4 kHz (+/-2.4k)
 - 3400 - 3500 kHz
 - 4126.4 kHz (+/-2.4k)
 - 4650 - 4700 kHz
 - 5065 kHz (+/-2.4k)
 - 5321.4 kHz (+/-2.4k)
 - 5423.9 kHz (+/-2.4k)
 - 5450 - 5683.8 kHz
 - 5694.4 kHz (+/-2.4k)
 - 5697.4 kHz (+/-2.4k)
 - 6525 - 6685 kHz
 - 8065 kHz (+/-2.4k)
 - 8815 - 8965 kHz
 - 10005 - 10100 kHz
 - 11275 - 11400 kHz
 - 13260 - 13360 kHz
 - 17900 - 17970 kHz
 - 21924 - 22000 kHz

Special Conditions:

- (4) Physical Optics Corporation must notch out the following:
5900-6200 KHz,
7200-7450 KHz,
9400-9900 KHz,
11600-12100 KHz,
13570-13870 KHz,
15100-15800 KHz,
17480-17900 KHz,
18900-19020 KHz,
21450-21850 KHz,
25670-26100 KHz
- (5) The applicant shall coordinate with the local Society of Broadcast Engineers frequency coordinator prior to commencing test operations.
- (6) Prior to commencing any operations in the frequencies below, the applicant must obtain consent from the following within 50 miles of the contours of the testing area:
Paging Service licensees in 454 MHz/459 MHz
General Aviation Air-Ground Service in 454 MHz/459 MHz