

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

EXPERIMENTAL

(Nature of Service)

WN9XTR

(Call Sign)

XT MO

(Class of Station)

1911-EX-ST-2018

(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	30M0A1C	1000 W (ERP)	5 %

This authorization effective January 10, 2018 and
will expire 3:00 A.M. EST April 01, 2019

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COMMUNICATIONS
COMMISSION**



Frequency Information

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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 not transmit or interfere with the 4.995 - 5.005 MHz, 9.995 - 10.100 MHz, 14.990 - 15.010 MHz, 19.990 - 20.010 MHz, and the 24.990 - 25.010 MHz bands in order to avoid interfering with the Standard Time and Frequency bands.

Physical Optics Corporation must notch out the 2.850 - 3.025 MHz, 3.4 - 3.5 MHz, 4.65 - 4.7 MHz, 5.45 - 5.68 MHz, 6.525 - 6.685 MHz, 8.815 - 8.965 MHz, 10.005 - 10.100 MHz, 11.275 - 11.40 MHz, 13.260 - 13.360 MHz, 17.9 - 17.97 MHz, and the 21.924 - 22 MHz bands in order to avoid interfering with Air Traffic Control operations.

- (4) Physical Optics Corporation must notch out the following spot frequencies (+/- 1.4 kHz): 12081.5 kHz, 12520 kHz, 12921.4 kHz, 12577 kHz, 13114.4 kHz, 13219 kHz, 13222.4 kHz, 13434 kHz, 13493 kHz, 13496 kHz, 14428.5 kHz, 14461 kHz, 14953 kHz, 15083.4 kHz, 15086.4 kHz, 15089.4 kHz, 15640.5 kHz, 16027.5 kHz, 16695 kHz, 16421.4 kHz, 16804.5 kHz, 17315.4 kHz, 17989.4 kHz, 17992.4 kHz, 18186.5 kHz, 20247.5 kHz, 20330 kHz, 20843 kHz, 20882.5 kHz, 20985 kHz, 23074 kHz, 23077 kHz, 23091 kHz, 23094 kHz, 23840.5 kHz, 24228.5 kHz, 24793.5 kHz, 26582.5 kHz, 26640.5 kHz, 27590.5 kHz, and 27920.5 kHz in order to avoid interfering with Safety and Distress frequencies.
- (5) Physical Optics Corporation must notch out the following spot frequencies (+/- 1.4 kHz): 2120.4 kHz, 2142.4 kHz, 2183.4 kHz, 2174.5 kHz, 2187.5 kHz, 2262.4 kHz, 2660.4 kHz, 2679.4 kHz, 2671.4 kHz, 3024.4 kHz, 3054.4 kHz, 3057.4 kHz, 3120.4 kHz, 3123.4 kHz, 3383.4 kHz, 4126.4 kHz, 4177.5 kHz, 4207.5 kHz, 4427.4 kHz, 4572.5 kHz, 4731.4 kHz, 4734.4 kHz, 4821 kHz, 4902 kHz, 4965 kHz, 5065 kHz, 5108 kHz, 5321.4 kHz, 5423.9 kHz, 5681.4 kHz, 5694.4 kHz, 5697.4 kHz, 5700.4 kHz, 5885 kHz, 5943.5 kHz, 6216.4 kHz, 6268 kHz, 6312 kHz, 6502.4 kHz, 6517.4 kHz, 6710.4 kHz, 6743.4 kHz, 7419.5 kHz, 7630.5 kHz, 7669.5 kHz, 7736 kHz, 7743 kHz, 7747 kHz, 7775 kHz, 7793 kHz, 7821 kHz, 8065 kHz, 8292.4 kHz, 8295.4 kHz, 8414.5 kHz, 8765.4 kHz, 8981.4 kHz, 8984.4 kHz, 9035.4 kHz, 9038.4 kHz, 10540 kHz, 10774 kHz, 10810 kHz, 10891 kHz, 10918 kHz, 11197.4 kHz, 11200.4 kHz, 11203.4 kHz in order to avoid interfering with Safety and Distress frequencies.