

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

EXPERIMENTAL

(Nature of Service)

XD MO

(Class of Station)

WN9XHT

(Call Sign)

2070-EX-ST-2018

(File Number)

NAME Apium Inc

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:

Apium is developing a radio network for robots that uses ultra-wideband radios. This STA will allow prototyping and field testing using Decawaves DWM1001.

Station Locations

- (1) MOBILE: The Hansen Dam Recreation Lake, Los Angeles, CA, within 0.15 km, centered around NL 34-16-17; WL 118-23-17
- (2) MOBILE: Glendale, CA, within 0.05 km, centered around NL 34-08-54; WL 118-14-59
- (3) MOBILE: Parking lots and fields near the Rose Bowl stadium, Pasadena, CA, within 1 km, centered around NL 34-09-23; WL 118-09-58

Frequency Information

MOBILE: The Hansen Dam Recreation Lake, Los Angeles, CA, within 0.15 km, centered around NL 34-16-17; WL 118-23-17

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
6240-6739.2 MHz	MO	499MV1D	37 uW (ERP)	0.00002 %

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

**FEDERAL
COMMUNICATIONS
COMMISSION**



Frequency Information

MOBILE: Glendale, CA, within 0.05 km, centered around NL 34-08-54; WL 118-14-59

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
6240-6739.2 MHz	MO	499MV1D	37 uW (ERP)	0.00002 %

MOBILE: Parking lots and fields near the Rose Bowl stadium, Pasadena, CA, within 1 km, centered around NL 34-09-23; WL 118-09-58

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
6240-6739.2 MHz	MO	499MV1D	37 uW (ERP)	0.00002 %

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) Experimental station shall use the minimum power level necessary to establish communications links to minimize potential interference to licensed users.
- (3) The stop buzzer contact for this project is Magnus Delight, Phone: 760-300-5700
Email: magnus@apium.com
- (4) Operations are on a non-interference basis (NIB) and shall not cause harmful interference to, and shall not claim protection from, interference caused to it by any other lawfully operating station and it shall cease transmission(s) immediately upon notice of such interference and notify the FCC in writing.