

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

EXPERIMENTAL

(Nature of Service)

WH9XUV

(Call Sign)

XT      FX MO

(Class of Station)

0532-EX-ST-2015

(File Number)

NAME Cohere Technologies

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:**

Cohere Technologies has developed a new modulation technique using Orthogonal Time Frequency Shift modulation (OTFS). The modulation technique promises to deliver higher spectral

**Station Locations**

- (1) Santa Clara (SANTA CLARA), CA - NL 37-19-58; WL 121-57-45
- (2) MOBILE: Within .5km of our offices in Santa Clara, CA, within 5 km, centered around NL 37-19-58; WL 121-57-45
- (3) Tracy (SAN JOAQUIN), CA - NL 37-43-48; WL 121-26-04; MOBILE: , within 25 km
- (4) Castro Valley (ALAMEDA), CA - NL 37-42-19; WL 122-02-51; MOBILE: , within 1.35 km
- (5) Napa (NAPA), CA - NL 38-17-25; WL 122-17-15; MOBILE: , within 8 km
- (6) San Francisco (SAN FRANCISCO), CA - NL 37-47-22; WL 122-25-56; MOBILE: , within 4 km
- (7) San Francisco (SAN FRANCISCO), CA - NL 37-33-51; WL 122-26-55; MOBILE: , within 10.5 km
- (8) San Francisco (SAN FRANCISCO), CA - NL 37-14-18; WL 122-24-48; MOBILE: , within 2 km

This authorization effective June 15, 2015 and  
will expire 3:00 A.M. EST December 16, 2015

**FEDERAL  
COMMUNICATIONS  
COMMISSION**



## Frequency Information

Santa Clara (SANTA CLARA), CA - NL 37-19-58; WL 121-57-45

| Frequency | Station Class | Emission Designator | Authorized Power    | Frequency Tolerance (+/-) |
|-----------|---------------|---------------------|---------------------|---------------------------|
| 3655 MHz  | FX            | 10M0W8W<br>5M00W8W  | 10 W (Output Power) |                           |
| 3665 MHz  | FX            | 5M00W8W<br>10M0W8W  | 10 W (Output Power) |                           |

MOBILE: Within .5km of our offices in Santa Clara, CA, within 5 km, centered around NL 37-19-58; WL 121-57-45

| Frequency | Station Class | Emission Designator | Authorized Power    | Frequency Tolerance (+/-) |
|-----------|---------------|---------------------|---------------------|---------------------------|
| 3655 MHz  | MO            | 10M0W8W<br>5M00W8W  | 10 W (Output Power) |                           |
| 3665 MHz  | MO            | 10M0W8W<br>5M00W8W  | 10 W (Output Power) |                           |

Tracy (SAN JOAQUIN), CA - NL 37-43-48; WL 121-26-04; MOBILE: , within 25 km

| Frequency     | Station Class | Emission Designator                      | Authorized Power | Frequency Tolerance (+/-) |
|---------------|---------------|------------------------------------------|------------------|---------------------------|
| 3650-3675 MHz |               | 10M0W8W<br>5M00W8W<br>10M0W8W<br>5M00W8W | 5 W (ERP)        |                           |

## Frequency Information

Castro Valley (ALAMEDA), CA - NL 37-42-19; WL 122-02-51; MOBILE: , within 1.35 km

| Frequency     | Station Class | Emission Designator | Authorized Power | Frequency Tolerance (+/-) |
|---------------|---------------|---------------------|------------------|---------------------------|
| 3650-3675 MHz |               | 10M0W8W             | 5 W (ERP)        |                           |
|               |               | 10M0W8W             |                  |                           |
|               |               | 5M00W8W             |                  |                           |
|               |               | 5M00W8W             |                  |                           |

Napa (NAPA), CA - NL 38-17-25; WL 122-17-15; MOBILE: , within 8 km

| Frequency     | Station Class | Emission Designator | Authorized Power | Frequency Tolerance (+/-) |
|---------------|---------------|---------------------|------------------|---------------------------|
| 3650-3675 MHz |               | 10M0W8W             | 10 W (ERP)       |                           |

San Francisco (SAN FRANCISCO), CA - NL 37-47-22; WL 122-25-56; MOBILE: , within 4 km

| Frequency     | Station Class | Emission Designator | Authorized Power | Frequency Tolerance (+/-) |
|---------------|---------------|---------------------|------------------|---------------------------|
| 3650-3675 MHz |               | 10M0W8W             | 10 W (ERP)       |                           |

San Francisco (SAN FRANCISCO), CA - NL 37-33-51; WL 122-26-55; MOBILE: , within 10.5 km

| Frequency     | Station Class | Emission Designator | Authorized Power | Frequency Tolerance (+/-) |
|---------------|---------------|---------------------|------------------|---------------------------|
| 3650-3675 MHz |               | 10M0W8W             | 10 W (ERP)       |                           |

## Frequency Information

San Francisco (SAN FRANCISCO), CA - NL 37-14-18; WL 122-24-48; MOBILE: , within 2 km

| Frequency     | Station<br>Class | Emission<br>Designator | Authorized<br>Power | Frequency<br>Tolerance (+/-) |
|---------------|------------------|------------------------|---------------------|------------------------------|
| 3650-3700 MHz | FX               | 10M0W8W                | 10 W (ERP)          |                              |

## Special Conditions:

- (1) Licensee shall maintain separation from grandfathered earth stations as defined in Part 90 subpart Z, or coordinate an agreement with the grandfathered earth station licensees prior to operation in the proposed frequency bands
- (2) Licensee shall consult the ULS database to ensure that the operation will not cause harmful interference to any existing registered stations in the 3650-3700 MHz band , and notify the registered users in the area prior to operation in the 3650-3700 MHz.