

United States of America  
FEDERAL COMMUNICATIONS COMMISSION  
EXPERIMENTAL  
RADIO STATION CONSTRUCTION PERMIT  
AND LICENSE

EXPERIMENTAL  
(Nature of Service)  
  
XT      FX MO  
(Class of Station)

WH2XHT  
(Call Sign)  
  
0240-EX-CM-2019  
(File Number)

NAME Northrop Grumman Systems Corporation

Subject to the provisions of the Communications Act of 1934, subsequent acts, and treaties, and all regulations heretofore or hereafter made by this Commission, and further subject to the conditions and requirements set forth in this license, the licensee hereof is hereby authorized to use and operate the radio transmitting facilities hereinafter described for radio communications in accordance with the program of experimentation described by the licensee in its application for license.

Operation: In accordance with Sec. 5.3(j) of the Commission's Rules

Station Locations

- (1) Melbourne (BREVARD), FL - NL 28-05-58; WL 80-37-55; MOBILE: Melbourne, FL: Max altitude 45,000 ft. AMSL, within 371 km, centered around NL 28-05-58; WL 80-37-55
- (2) Huntsville (MADISON), AL - NL 34-25-52; WL 86-23-37; MOBILE: Huntsville, AL: Max altitude 45,000 ft. AMSL, within 371 km, centered around NL 34-25-52; WL 86-23-37
- (3) Palmdale (LOS ANGELES), CA - NL 34-38-37; WL 118-04-18; MOBILE: Palmdale, CA: Max altitude 45,000 ft. AMSL, within 371 km, centered around NL 34-38-37; WL 118-04-18

Frequency Information

Melbourne (BREVARD), FL - NL 28-05-58; WL 80-37-55; MOBILE: Melbourne, FL: Max altitude 45,000 ft. AMSL, within 371 k

| Frequency | Station Class | Emission Designator | Authorized Power    | Frequency Tolerance (+/-) |
|-----------|---------------|---------------------|---------------------|---------------------------|
| 4495 MHz  | MO            | 5M50G7D             | 10 W (Output Power) |                           |
| 4495 MHz  | FX            | 5M50G7D             | 10 W (Output Power) |                           |
| 4865 MHz  | MO            | 5M50G7D             | 10 W (Output Power) |                           |

This authorization effective October 11, 2019 and  
will expire 3:00 A.M. EST October 01, 2024

FEDERAL  
COMMUNICATIONS  
COMMISSION



## Frequency Information

Melbourne (BREVARD), FL - NL 28-05-58; WL 80-37-55; MOBILE: Melbourne, FL: Max altitude 45,000 ft. AMSL, within 371 k

| Frequency     | Station Class | Emission Designator | Authorized Power    | Frequency Tolerance (+/-) |
|---------------|---------------|---------------------|---------------------|---------------------------|
| 4865 MHz      | FX            | 5M50G7D             | 10 W (Output Power) |                           |
| 5350-5570 MHz | MO            | 5M50G7D             | 10 W (Output Power) |                           |
| 5350-5570 MHz | FX            | 5M50G7D             | 10 W (Output Power) |                           |

Huntsville (MADISON), AL - NL 34-25-52; WL 86-23-37; MOBILE: Huntsville, AL: Max altitude 45,000 ft. AMSL, within 371 km

| Frequency     | Station Class | Emission Designator | Authorized Power    | Frequency Tolerance (+/-) |
|---------------|---------------|---------------------|---------------------|---------------------------|
| 4495 MHz      | MO            | 5M50G7D             | 10 W (Output Power) |                           |
| 4495 MHz      | FX            | 5M50G7D             | 10 W (Output Power) |                           |
| 4865 MHz      | FX            | 5M50G7D             | 10 W (Output Power) |                           |
| 4865 MHz      | MO            | 5M50G7D             | 10 W (Output Power) |                           |
| 5350-5570 MHz | MO            | 5M50G7D             | 10 W (Output Power) |                           |
| 5350-5570 MHz | FX            | 5M50G7D             | 10 W (Output Power) |                           |

## Frequency Information

Palmdale (LOS ANGELES), CA - NL 34-38-37; WL 118-04-18; MOBILE: Palmdale, CA: Max altitude 45,000 ft. AMSL, within 3

| Frequency     | Station Class | Emission Designator | Authorized Power    | Frequency Tolerance (+/-) |
|---------------|---------------|---------------------|---------------------|---------------------------|
| 4645 MHz      | FX            | 5M50G7D             | 10 W (Output Power) |                           |
| 4645 MHz      | MO            | 5M50G7D             | 10 W (Output Power) |                           |
| 4685 MHz      | FX            | 5M50G7D             | 10 W (Output Power) |                           |
| 4685 MHz      | MO            | 5M50G7D             | 10 W (Output Power) |                           |
| 5350-5570 MHz | FX            | 5M50G7D             | 10 W (Output Power) |                           |
| 5350-5570 MHz | MO            | 5M50G7D             | 10 W (Output Power) |                           |

## Special Conditions:

- (1) In lieu of frequency tolerance, the occupied bandwidth of the emission shall not extend beyond the band limits set forth above.
- (2) The station identification requirements of Section 5.115 of the Commission's Rules are waived.
- (3) 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.