

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

EXPERIMENTAL

(Nature of Service)

WD2XWV

(Call Sign)

XD      FX MO

(Class of Station)

0401-EX-PL-2005

(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(i) of the Commission's Rules

Station Locations

- (1) Melbourne (BREVARD), FL - NL 28-05-38; WL 80-38-42; MOBILE: Melbourne (BREVARD), FL, airborne at altitude of 10700 meters, within 680 km, centered around NL 28-05-38; WL 80-38-42
- (2) Norfolk (GLOUCESTER), VA - NL 36-50-09; WL 76-15-01; MOBILE: Norfolk (GLOUCESTER), VA, airborne at altitude of 10700 meters, within 680 km, centered around NL 36-50-09; WL 76-15-01
- (3) Mojave (KERN), CA - NL 35-03-25; WL 118-09-16; MOBILE: Mojave (KERN), CA, airborne at altitude of 10700 meters, within 680 km, centered around NL 35-03-25; WL 118-09-16

Frequency Information

Melbourne (BREVARD), FL - NL 28-05-38; WL 80-38-42; MOBILE: Melbourne (BREVARD), FL, airborne at altitude of 10700

| Frequency  | Station Class | Emission Designator | Authorized Power | Frequency Tolerance (+/-) |
|------------|---------------|---------------------|------------------|---------------------------|
| 440.75 MHz | MO            | 6M00G1D             | 75 W (ERP)       |                           |
| 440.75 MHz | FX            | 6M00G1D             | 16 W (ERP)       |                           |

This authorization effective July 11, 2006 and  
will expire 3:00 A.M. EST July 12, 2008

**FEDERAL  
COMMUNICATIONS  
COMMISSION**



## Frequency Information

Melbourne (BREVARD), FL - NL 28-05-38; WL 80-38-42; MOBILE: Melbourne (BREVARD), FL, airborne at altitude of 10700

| Frequency       | Station Class | Emission Designator           | Authorized Power | Frequency Tolerance (+/-) |
|-----------------|---------------|-------------------------------|------------------|---------------------------|
| 443.75 MHz      | FX            | 6M00G1D                       | 16 W (ERP)       |                           |
| 443.75 MHz      | MO            | 6M00G1D                       | 75 W (ERP)       |                           |
| 446.75 MHz      | MO            | 6M00G1D                       | 75 W (ERP)       |                           |
| 446.75 MHz      | FX            | 6M00G1D                       | 16 W (ERP)       |                           |
| 9800-9950 MHz   | MO            | 800KG1D                       | 19.5 kW (ERP)    |                           |
| 9800-9950 MHz   | MO            | 800KG1D<br>6M00G1D            | 19.5 kW (ERP)    |                           |
| 10150-10450 MHz | MO            | 21M4G1D<br>800KG1D<br>6M00G1D | 27 kW (ERP)      |                           |

Norfolk (GLOUCESTER), VA - NL 36-50-09; WL 76-15-01; MOBILE: Norfolk (GLOUCESTER), VA, airborne at altitude of 107

| Frequency  | Station Class | Emission Designator | Authorized Power | Frequency Tolerance (+/-) |
|------------|---------------|---------------------|------------------|---------------------------|
| 440.75 MHz | MO            | 6M00G1D             | 75 W (ERP)       |                           |

## Frequency Information

Norfolk (GLOUCESTER), VA - NL 36-50-09; WL 76-15-01; MOBILE: Norfolk (GLOUCESTER), VA, airborne at altitude of 107

| Frequency       | Station Class | Emission Designator | Authorized Power | Frequency Tolerance (+/-) |
|-----------------|---------------|---------------------|------------------|---------------------------|
| 440.75 MHz      | FX            | 6M00G1D             | 16 W (ERP)       |                           |
| 443.75 MHz      | FX            | 6M00G1D             | 16 W (ERP)       |                           |
| 443.75 MHz      | MO            | 6M00G1D             | 75 W (ERP)       |                           |
| 446.75 MHz      | MO            | 6M00G1D             | 75 W (ERP)       |                           |
| 446.75 MHz      | FX            | 6M00G1D             | 16 W (ERP)       |                           |
| 9750-9950 MHz   | MO            | 800KG1D             | 19.5 kW (ERP)    |                           |
| 10150-10450 MHz | MO            | 21M4G1D             | 27 kW (ERP)      |                           |

Mojave (KERN), CA - NL 35-03-25; WL 118-09-16; MOBILE: Mojave (KERN), CA, airborne at altitude of 10700 meters, withir

| Frequency  | Station Class | Emission Designator | Authorized Power | Frequency Tolerance (+/-) |
|------------|---------------|---------------------|------------------|---------------------------|
| 440.75 MHz | FX            | 6M00G1D             | 16 W (ERP)       |                           |
| 440.75 MHz | MO            | 6M00G1D             | 75 W (ERP)       |                           |

## Frequency Information

Mojave (KERN), CA - NL 35-03-25; WL 118-09-16; MOBILE: Mojave (KERN), CA, airborne at altitude of 10700 meters, within

| Frequency       | Station Class | Emission Designator           | Authorized Power | Frequency Tolerance (+/-) |
|-----------------|---------------|-------------------------------|------------------|---------------------------|
| 443.75 MHz      | MO            | 6M00G1D                       | 75 W (ERP)       |                           |
| 443.75 MHz      | FX            | 6M00G1D                       | 16 W (ERP)       |                           |
| 446.75 MHz      | MO            | 6M00G1D                       | 75 W (ERP)       |                           |
| 446.75 MHz      | FX            | 6M00G1D                       | 16 W (ERP)       |                           |
| 9750-9950 MHz   | MO            | 800KG1D<br>6M00G1D            | 19.5 kW (ERP)    |                           |
| 9800-9950 MHz   | MO            | 800KG1D                       | 19.5 kW (ERP)    |                           |
| 10150-10450 MHz | MO            | 21M4G1D<br>800KG1D<br>6M00G1D | 27 kW (ERP)      |                           |

## 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.
- (4) The band 9750-9800 MHz is not authorized for use in the Melbourne, FL area.

**Special Conditions:**

- (5) The U.S. Air Force concurs with the Melbourne, FL request strictly on a non-interference basis. Prior to the start of operations, the licensee must provide a stop buzzer POC to Dick Akers at (321) 494-5838.
- (6) The U.S. Navy has no objection to frequency use as proposed provided coordination is accomplished with the appropriate DoD Area Frequency Coordinator prior to commencing operation. The appropriate AFCs for each location are as follows:

| Station Location: | DoD Area Frequency Coordinator: |
|-------------------|---------------------------------|
|-------------------|---------------------------------|

|               |                                                   |
|---------------|---------------------------------------------------|
| Melbourne, FL | Eastern Area Frequency Coordinator (305) 494-5366 |
| Norfolk, VA   | JFMO Lant (757) 836-8006                          |

- (7) Scheduling required prior to commencing operation in Mojave, CA with Area Frequency Coordinator, Nellis AFB, Nevada.