

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

EXPERIMENTAL

(Nature of Service)

XD      FX

(Class of Station)

WD2XBD

(Call Sign)

0239-EX-RR-2006

(File Number)

NAME Raytheon Company

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(k) of the Commission's Rules

Station Locations

- (1) Saint Petersburg (PINELLAS), FL - NL 27-47-22; WL 82-44-23
- (2) Largo (PINELLAS), FL - NL 27-52-27; WL 82-44-52

Frequency Information

Saint Petersburg (PINELLAS), FL - NL 27-47-22; WL 82-44-23

| Frequency | Station Class | Emission Designator | Authorized Power | Frequency Tolerance (+/-) |
|-----------|---------------|---------------------|------------------|---------------------------|
| 14 KHZ    | FX            | NON                 | 8.6 mW (ERP)     |                           |
| 80 KHZ    | FX            | NON                 | 8.6 mW (ERP)     |                           |
| 520 KHZ   | FX            | NON                 | 24 mW (ERP)      |                           |
| 1000 KHZ  | FX            | NON                 | 24 mW (ERP)      |                           |

This authorization effective December 01, 2006 and  
will expire 3:00 A.M. EST December 01, 2007

**FEDERAL  
COMMUNICATIONS  
COMMISSION**



## Frequency Information

Saint Petersburg (PINELLAS), FL - NL 27-47-22; WL 82-44-23

| Frequency | Station Class | Emission Designator | Authorized Power | Frequency Tolerance (+/-) |
|-----------|---------------|---------------------|------------------|---------------------------|
| 5100 kHz  | FX            | N0N                 | 24 mW (ERP)      |                           |
| 10100 kHz | FX            | N0N                 | 24 mW (ERP)      |                           |
| 52 MHz    | FX            | N0N                 | 31 mW (ERP)      |                           |
| 100 MHz   | FX            | N0N                 | 31 mW (ERP)      |                           |
| 523 MHz   | FX            | N0N                 | 49 mW (ERP)      |                           |
| 1290 MHz  | FX            | N0N                 | 770 mW (ERP)     |                           |
| 4190 MHz  | FX            | N0N                 | 770 mW (ERP)     |                           |
| 4800 MHz  | FX            | N0N                 | 770 mW (ERP)     |                           |
| 5470 MHz  | FX            | N0N                 | 770 mW (ERP)     |                           |
| 10495 MHz | FX            | N0N                 | 770 mW (ERP)     |                           |

## Frequency Information

Saint Petersburg (PINELLAS), FL - NL 27-47-22; WL 82-44-23

| Frequency | Station Class | Emission Designator | Authorized Power | Frequency Tolerance (+/-) |
|-----------|---------------|---------------------|------------------|---------------------------|
| 18000 MHz | FX            | N0N                 | 770 mW (ERP)     |                           |

Largo (PINELLAS), FL - NL 27-52-27; WL 82-44-52

| Frequency | Station Class | Emission Designator | Authorized Power | Frequency Tolerance (+/-) |
|-----------|---------------|---------------------|------------------|---------------------------|
| 14 KHZ    | FX            | N0N                 | 8.6 mW (ERP)     |                           |
| 80 KHZ    | FX            | N0N                 | 8.6 mW (ERP)     |                           |
| 520 KHZ   | FX            | N0N                 | 24 mW (ERP)      |                           |
| 1000 KHZ  | FX            | N0N                 | 24 mW (ERP)      |                           |
| 5100 KHZ  | FX            | N0N                 | 24 mW (ERP)      |                           |
| 10100 KHZ | FX            | N0N                 | 24 mW (ERP)      |                           |
| 52 MHz    | FX            | N0N                 | 31 mW (ERP)      |                           |
| 100 MHz   | FX            | N0N                 | 31 mW (ERP)      |                           |

## Frequency Information

Largo (PINELLAS), FL - NL 27-52-27; WL 82-44-52

| Frequency | Station Class | Emission Designator | Authorized Power | Frequency Tolerance (+/-) |
|-----------|---------------|---------------------|------------------|---------------------------|
| 523 MHz   | FX            | N0N                 | 49 mW (ERP)      |                           |
| 1290 MHz  | FX            | N0N                 | 770 mW (ERP)     |                           |
| 4190 MHz  | FX            | N0N                 | 770 mW (ERP)     |                           |
| 4800 MHz  | FX            | N0N                 | 770 mW (ERP)     |                           |
| 5470 MHz  | FX            | N0N                 | 770 mW (ERP)     |                           |
| 10495 MHz | FX            | N0N                 | 770 mW (ERP)     |                           |
| 18000 MHz | FX            | N0N                 | 770 mW (ERP)     |                           |

## Special Conditions:

- (1) Assignment in frequency bands 960-1400, 2700-2900, or 9000-9200 MHz was coordinated prior to authorization with the FAA Southern Coordinator, Atlanta, GA. Use of frequencies under the authority of this assignment is subject to such further coordination with the FAA Southern Coordinator, Atlanta, GA, as necessary to ensure compatibility with existing uses.
- (2) In lieu of frequency tolerance, the occupied bandwidth of the emission shall not extend beyond the band limits set forth above.
- (3) The station identification requirements of Section 5.115 of the Commission's Rules are waived.
- (4) 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.