

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

EXPERIMENTAL

(Nature of Service)

WD2XXX

(Call Sign)

XD      FX

(Class of Station)

0021-EX-TC-2007

(File Number)

NAME Aeronautical Radio, Inc.

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(d i) of the Commission's Rules

Station Locations

- (1) San Diego (SAN DIEGO), CA - NL 32-45-25; WL 117-12-53
- (2) Annapolis (ANNE ARUNDEL), MD - NL 38-58-35; WL 76-33-01

Frequency Information

San Diego (SAN DIEGO), CA - NL 32-45-25; WL 117-12-53

| Frequency         | Station Class | Emission Designator           | Authorized Power | Frequency Tolerance (+/-) |
|-------------------|---------------|-------------------------------|------------------|---------------------------|
| 1626.5-1660.5 MHz | FX            | 84H0G1D<br>1K00G1D<br>6K00G1W | 122 W (ERP)      |                           |

Annapolis (ANNE ARUNDEL), MD - NL 38-58-35; WL 76-33-01

| Frequency         | Station Class | Emission Designator | Authorized Power | Frequency Tolerance (+/-) |
|-------------------|---------------|---------------------|------------------|---------------------------|
| 1626.5-1660.5 MHz | FX            | 84H0G1D<br>1K00G1D  | 122 W (ERP)      |                           |

This authorization effective September 18, 2007 and  
will expire 3:00 A.M. EST June 01, 2008

**FEDERAL  
COMMUNICATIONS  
COMMISSION**



## Frequency Information

Annapolis (ANNE ARUNDEL), MD - NL 38-58-35; WL 76-33-01

| Frequency         | Station Class | Emission Designator | Authorized Power | Frequency Tolerance (+/-) |
|-------------------|---------------|---------------------|------------------|---------------------------|
| 1626.5-1660.5 MHz | FX            | 6K00G1W             | 122 W (ERP)      |                           |

## 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) Operations on the Inmarsat 4F2 satellite shall be on an unprotected basis. ARINC shall not claim protection from, and is required to accept interference from, other lawfully operating satellites or radiocommunication systems.
- (3) Equipment authorized: Two (2) Thrane and Thrane model TT-5033A
- (4) Neither the aggregate uplink EIRP densities in the direction of any other L-band satellite serving the United States, nor the downlink EIRP densities at any geographical point within the United States, shall be increased as a result of operations on the Inmarsat 4F2 satellite over those densities previously authorized on the Inmarsat 3F4 satellite.
- (5) Operations are permitted on those frequencies previously used on the Inmarsat 3F4 satellite, except that operations are not permitted on certain frequencies, made available to Inmarsat by MSV USA and MSV Canada as part of the operator-to-operator coordination process, the use of which is currently an issue pending.
- (6) Adequate guard bands shall be provided between the band edges of the carriers used by ARINC and the band edges of MSV's operations in order to preclude the possibility of unacceptable interference to MSV's operations.