

**EXHIBIT 1**

| <b>Manufacturer</b> | <b>Antenna Diameter</b> | <b>Band</b> | <b>No. of Units*</b> | <b>3 dB Beamwidth Horizontal Plane (degrees)</b> | <b>3 dB Beamwidth Vertical Plane (degrees)</b> |
|---------------------|-------------------------|-------------|----------------------|--------------------------------------------------|------------------------------------------------|
| Vertex              | 2.4 meters              | C           | 1                    | 1.3                                              | 1.3                                            |
| Andrew              | 3.7 meters              | C           | 1                    | 0.8                                              | 0.8                                            |
| Andrew              | 4.5 meter               | C           | 1                    | 0.85                                             | 0.85                                           |
| Vertex              | 2.4 meters              | X           | 1                    | 1.0                                              | 1.0                                            |
| Prodelin            | 1.2 meters              | Ku          | 1                    | 1.4                                              | 1.4                                            |
| Prodelin            | 1.8 meters              | Ku          | 1                    | 0.9                                              | 0.9                                            |
| Vertex              | 2.4 meters              | Ku          | 1                    | 0.58                                             | 0.58                                           |
| Andrew              | 3.7 meters              | Ku          | 1                    | 0.36                                             | 0.36                                           |
| Andrew              | 4.5 meters              | Ku          | 1                    | 0.33                                             | 0.33                                           |

## **EXHIBIT 2**

Northrop Grumman Corporation (“Northrop Grumman”) is a leading high quality supplier of earth station satellite terminals to the United States Government market. Northrop Grumman designs, builds, tests and installs earth station satellite terminals throughout the continental United States and around the world.

The terminals that Northrop Grumman supplies are based on commercial off-the-self antennas and electronics. The terminals may use any antenna shown in Exhibit 1.

During the production test phase, Northrop Grumman occasionally needs to perform various tests from the satellite to ensure that the terminals are compliant with Federal Communications Commission (“FCC”) regulations and customer specifications. Typical tests include transmit and receive antenna pattern tests, cross polarization isolation measurements, tracking performance tests, Figure of Merit (GT) testing, and Bit Error Rate (BER) testing. The objective is to ensure that all terminals are in full compliance with FCC regulations prior to delivery to Northrop Grumman’s customers. This modification application merely requests a change in the testing location at Northrop Grumman’s facilities in Maryland.

The public interest is served, as Northrop Grumman works under Government contract. The development of these technologies improves communications for Government agencies, to the benefit of United States citizens.