

CONFIDENTIAL
BUSINESS PROPRIETARY

EXHIBIT 1

SpaceData International ("SpaceData") requests Special Temporary Authority to operate an interim transmitter from on board a vessel, R/V Western Spirit, a Panamanian-registered vessel owned by Baker Hughes Incorporated, while it is in the Port of Galveston, Texas to conduct a series of tests to determine the technical and commercial viability of transfers of large quantities of data from offshore seismic exploration vessels to onshore data processing facilities.^{1/} The transmitter will uplink with a satellite from the National Aeronautical and Space Administration's ("NASA") Tracking and Data Satellite System ("TDRSS") operating in the Pacific Ocean Region. The data will be transmitted to an existing NASA facility at White Sands, New Mexico and then to data processing facilities by existing terrestrial networks. The testing facility on board the Western Spirit will receive minimal location and tracking information from White Sands. These tests will be conducted over a 90-day period commencing approximately July 15, 1999. These tests are necessary to determine whether the antenna platform and the compression software, which SpaceData proposes to use, are technically and commercially viable.

The following equipment will be used:^{2/}

Transmitter: Newtec NTC/2055/AA Data Modulator
Comtech Communications UT4514/E/OD Upconverter
Xicom XTD-750KT TWT Amplifier
SeaTel 9798 2.4 meter tuned Ku-Band Antenna

Receiver: Comtech Communications SDM 550 modem
All other equipment is part of White Sands communications equipment

^{1/} When commercial operations commence, the transmitter will be located on ships at sea and will send data to various TDRSS satellites.

^{2/} In the case of equipment failure, some components may have to be replaced with an equivalent model.

SpaceData will use a single transmitter, transmitting at frequencies in the 14887.8 to 15118.9 MHz-band. The transmitter will operate with a mean EIRP of 60.2 and will employ a circularly-polarized directional (parabolic) antenna. The frequency tolerance of the transmitter will be maintained within one part in 10^{-9} in the short term. The testing facility will receive data from NASA's White Sands Facility via a TDRSS satellite at a frequency of 13747.9 to 13802.0 Mhz. The receiver will operate with a mean EIRP of 26.3, using bandwidth of 1.4MHz.

The antenna will be mounted on board a ship and extend no more than 10 feet from the ship's structure. The antenna will be shielded on all sides by the superstructure of the ship. In addition, if there are terrestrial users in the proposed frequencies in the area around the earth station, we would coordinate use with any affected operators. In the unlikely event of a report of interference from any existing licensee, the test will be immediately stopped. If the Commission receives any reports of interference, the complaint should be referred to Wil Zarecor at 770-489-3221.

This application is for the second of a three-part test. SpaceData is continuing to conduct tests from Concord, California, pursuant to an experimental license 0082-EX-ST-1999 issued by the Commission on May 5, 1999. The third part of the testing will occur in international waters.