

0359-EX-ST-1999

**North Star Science and Technology, LLC
Technology Center Building
1450 South Rolling Road, Suite 4.036
Baltimore, MD 21227 USA
(410) 961-6692**

November 15, 1999

Federal Communications Commission
Experimental Radio Service
P.O. Box 358320
Pittsburgh, PA 15251-5320

To whom it may concern:

I was recently informed that I need an FCC Experimental License in order to test Argos compatible platform transmitter terminals (PTTs) prior to sale to clients. I have only been in business for a short time, and I am happy to comply with these rules and regulations. I am applying for a Special Temporary Authority at this time because I shipped 3 PTTs to Israel and the units were held up in customs. The Israeli customs authorities will not release these PTTs to our client until I can prove that I have FCC authority to test these units. Admittedly, FCC rules do not apply in Israel, but I am told that without this FCC authority, customs will not release these units to our client.

The name and address of the company applying for this STA follows:

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The need for special action is dictated by two factors: (1) I need the FCC authorization immediately so I can demonstrate to the Israeli customs authorities that we are in compliance with FCC rules and regulations regarding the manufacture and testing of our PTTs, and (2) because we very infrequently perform testing of these PTTs and a 6-month approval is all we need at this time. In the future, we will probably complete form 442 to acquire a 2-year experimental license. But we can decide that question in the coming weeks.

For our applications, we simply manufacture and sell small satellite PTTs for use tracking animals via the Argos satellite system. All we would need to do on our end is test these PTTs for a few days prior to shipment to our clients. We never have the PTTs on the air for very long and have no need for extended operation or extensive testing.

The purpose of our operation is simply to manufacture and sell Argos PTTs to wildlife researchers throughout the world.

The time and date of proposed operation varies with each order we receive.

The nature of our service is to manufacture and sell Argos PTTs for biological and ecological studies of wildlife. The Argos PTTs can be tracked and monitored by the Argos satellite system anywhere in the world to an accuracy of 150 – 1000 meters. This system is ideally suited for tracking marine mammals, birds, sea turtles, etc. on their migrations.

The location of proposed operation is in the mid-Atlantic states, primarily Maryland (where our company is located).

The equipment to be used are North Star's 20, 32, and 80 gram PTTs for birds. North Star manufactures these units for commercial sale. North Star also manufactures satellite PTT collars for terrestrial animals. It is possible that North Star might manufacture PTTs for other species, or perhaps in different shapes and sizes for specific animal applications. The number of units varies with each order. Typically, clients order less than 10 units at a time. But some clients might order 10-20 at a time. North Star would almost never have more than 25 units on the air at any time.

The frequency to be used is the operational frequency of the Argos system, 401.65 MHz. Our units deviate from that central frequency by no more than 4 KHz in either direction. The effective radiated power of North Star's PTTs varies from 175 mW to 500 mW. The emission type is FM (BPSK) CW. The overall height above ground of antenna structure is typically 9 inches (whip antenna). However, these units are mounted on birds, and the birds can fly at great altitude.

Please let me know if you have any additional questions. A rapid response time would be greatly appreciated. I can be reached at (410) 961-6692, Thank you.

Sincerely,



M. Blake Henke

North Star Science and Technology

Enclosure