

FCC form 442

Exhibit A - form item #10 purpose of experimental service.

15-Dec-98

MDR

The experimental service is being requested for wireless transmitter engineering product development purposes. Detection Systems Inc, intends to continue further development of the security wireless product line in various countries such as USA, Australia, China, Europe, etc.

We currently have some 304MHz products done and in manufacturing, they have been approved by FCC, IC, and SMA . We expect to continue development of future products in the same applications.

We are also planning to develop 433 MHz products for other countries where 304MHz is not accepted.

The products have various components in the development stage, thus requiring a wide center frequency tolerance of +/- 2 MHz. The actual bandwidth of any individual component is relatively narrow (<500kHz).

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Exhibit B - form item #4 Particulars of Operation

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304MHz product line:

typical center frequency : 304MHz
center frequency tolerance : +/- 2MHz
bandwidth of individual component : 500kHz
small products with integrated wire antenna
peak power : 10mW ERP
modulation : 100% on/off keyed
modulation rate : 5 to 20 kHz
transmit duration per packet : 40mSec
packet redundancy of up to 16 packets over 4 seconds
on air duty cycle < 10 percent per transmission time period
transmissions occur dependant upon external events

433MHz product line:

typical center frequency : 433.5MHz
center frequency tolerance : +/- 3MHz
bandwidth of individual component : 500kHz
small products with integrated wire antenna
peak power : 15mW ERP
modulation : 100% on/off keyed
modulation rate : 5 to 20 kHz
transmit duration per packet : 40mSec
packet redundancy of up to 16 packets over 4 seconds
on air duty cycle < 10 percent per transmission time period
transmissions occur dependant upon external events