

#### Question #4 – Government Project Description

The L3 Technologies Radio, called the Banshee, is designed to operate using frequency division duplexing (FDD), with one frequency channel used for transmission and two frequency channels used for reception. Three channel allocations are required. The transmit and receive channels will operate on the same antenna with a triplexer used to provide the necessary transmit-to-receive isolation. The triplexer configuration will be floppable, meaning that the specific transmit and receive bands can be dynamically changed via a switch matrix prior to the triplexer filters. The triplexer filters cover the following bands: 2.0 - 2.5 GHz, 3.1 - 3.6 GHz, 4.2-4.95 GHz. The RF channeling capability is 1 MHz. Mean transmit power is 1 W. The antenna frequency range is 2.0 – 2.5 GHz, 3.2 – 3.6 GHz, and 4.4 – 4.9 GHz with main beam gains of +4 dBi, +7 dBi, and +7 dBi, respectively.

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