

The purpose of this modification is in order to demonstrate cooperative beamforming from separated transmitters subjected to independently-applied acoustic vibration and motion. Both the target and coherent transmitting hardware will be located on ground-based platforms. The coherence goal is a VHF through C-Band signal with instantaneous bandwidth of 20 MHz.

To support these requirements, Raytheon would like to modify FCC license WG2XFP by expanding two of the frequency bands currently used in Mercersburg, PA test location only. The expanded bands would allow us more flexibility in choosing a center frequency away from potential interferers that we've encountered to date at the Mercersburg testing location. The expanded bands include:

2550 – 2605 MHz with 35 MHz bandwidth at 0.5 Watts – Emission Designator: 35M0J0N/35M0J1N

614 – 664 MHz with 35 MHz bandwidth at 0.5 Watts – Emission Designator: 35M0J0N/35M0J1N

Raytheon would also like to remove frequency 3669 MHz operating frequency from all location in the application.