

Lockheed Martin is integrating an HF radio system on the MH-60R naval helicopter. Since the MH-60R platform does not currently have an HF radio system the electromagnetic effects on existing MH-60R avionics systems is unknown and needs to be tested.

Lockheed Martin plans on performing Electromagnetic Compatibility (EMC) and Electromagnetic Interference (EMI) testing. This testing will be accomplished by placing the airborne HF radio into transmit on one of the frequencies listed in the FCC Experimental License and observing other MH-60R avionics systems for signs of interference or performance degradation. Critical receivers on the MH-60R platform will be instrumented to measure the signal received while the HF radio system is transmitting. In addition, HF radio signal quality and strength will be tested at beyond line-of-sight distances by establishing contact with Gander Radio or with an HF Global Communications System station.

The results of the above testing will be analyzed to determine HF radio system performance and to identify any interference issues that may need further mitigation.