FCC OET ELS Application
Form 442 Question 7: Experimentation Description – Modification of Existing License
Confirmation No. EL205220
File No: 0149-EX-CM-2017
Submitted by: Mark Amend, Sales Engineer, Kongsberg Underwater Technology, Inc.
Date: 23 June, 2017

To Whom It May Concern:

Kongsberg Underwater Technology, Inc. kindly requests to modify experimental license call sign WI2XVB to demonstrate to the US Government and commercial entities the Kongsberg Seatex A/S Maritime Broadband Radio, a phased-array antenna technology that serves as a network link between two or more units. The MBR is primarily designed for use by the coastal and offshore government and commercial sectors. We will demonstrate multiple ship to ship vessel network operations, including remote desktop, file transfer, voice and video over IP. Photos of mobile installations (MBR 189, on ship; MBR 179 on small boat) are included as exhibits with this application.

This application is built upon approved and active FCC licenses for the same equipment and intended purpose.

FCC File No. 0272-EX-RR-2015 Call Sign WG2XTC

FCC File No. 0036-EX-PL-2016 Call Sign WI2XFF

FCC File No. 0037-EX-CN-2016 Call Sign WI2XNT

FCC File No. 0275-EX-CN-2016 Call Sign WI2XQG

Hardware connected to the MBR units includes ethernet switches on each end, two or more computers, and video/voice devices. Power will be provided by available ship power. Experimental outcomes will consist of network and user experience performance statistics.

The 50km-radius area centered off the mouth of Chesapeake Bay was selected for the purposes of deployment flexibility from a variety of shore locations for customers working out of the region. The large distance is for pushing the communications bandwidth as far as possible. It is anticipated that a shore station MBR189 may be established to communicate with small boats carrying a MBR 179 or an optional very low power MBR 144 unit. Within the geographic area the vessels will perform operational maneuvers for bandwidth and dynamic reliability tests.

Demonstrations are expected to run over weekdays, typically a 5 day interval.

Many thanks for your prompt consideration. Use is expected early July 2017

Mark Amend

Kongsberg Underwater Technology, Inc.