

FCC OET ELS Application

Form 442 Question 7: Experimentation Description

Confirmation No. EL634479

File No: 0222-EX-CN-2017

Submitted by: Mark Amend, Sales Engineer, Kongsberg Underwater Technology, Inc.

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To Whom It May Concern:

Kongsberg Underwater Technology, Inc. kindly requests an additional experimental license 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 at Solomons, Maryland was selected for the purposes of deployment flexibility for customer vessels 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 two small boats each carrying a MBR 179 unit, although the primary interest is between boats. 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 1-5 May, 2017 by federal customers.

Mark Amend

Kongsberg Underwater Technology, Inc.