

2020 Experimental FCC License Application Project Description – Filing Number 0610-EX-CN-2020

Under the N63394-19-C-0007 contract with the U.S. Navy, Ultra Electronics Ocean Systems, Inc. is supporting the design, development, procurement, production, integration, installation, validation, and maintenance phases of the AN/SPS-73(V)18 Next Generation Surface Search Radar (NGSSR) systems through the Naval Sea Systems Command (NAVSEA), Program Executive Office (PEO) Integrated Warfare Systems (IWS) 2.0 - Above Water Sensors contracting agency.

The Next Generation Surface Search Radar (NGSSR) is a single sensor system that provides precision radar navigation and concurrent surface search missions. The contract also includes providing ongoing system design, development and integration of technology insertion initiatives to improve Engineering Demonstration Model (EDM) performance and to mature innovative antenna and receiver/transmitter technologies aimed at reducing total ownership costs and weight.

As part of this effort, radar systems will be tested periodically through the design, prototype and subsequent technology insertion at the Ultra Electronics Ocean Systems facility in Braintree, MA. In addition, completed production systems will be tested as part of the Acceptance Test Procedures (ATP) phase of the program.

The radar will not be operated for extended periods of time, typically limited to less than 4 hours. The frequency of these operational periods is expected to be multiple (less than 5) times per month. The operational duration will be long enough to characterize performance capabilities and perform technical demonstrations of equipment and technologies.