

### 3 Phoenix Experimental FCC License Application Project Description

Under the N63394-10-C-1200 contract with the U.S. Navy, 3 Phoenix Inc is supporting fielded Advanced Development Model configuration AN/SPS-74(V)1 Periscope Detection Radar (PDR) systems and designing, developing, procuring, producing, integrating, installing, validating, and supporting the AN/SPS-74(V)2 PDR systems. The contract also calls for 3 Phoenix to provide ongoing system design, development and integration of technology insertion initiatives to improve PDR performance and to mature innovative antenna and receiver/transmitter technologies aimed at reducing total ownership costs and topside weight for application to Cruiser and Destroyer Surface Combatants. As part of this effort, Radar systems will be tested periodically through the design, prototype and subsequent technology insertion at the 3 Phoenix facility in Wake Forest, NC. It is expected that Radar will not be operated for extended periods of time, but only long enough to characterize performance capabilities, determine areas needing improvement, and perform technical demonstrations of equipment and technologies. In addition, completed production systems will be tested as part of the Factory Acceptance Test (FAT).