

Narrative Statement

The modification request for this license is a result of Aerostar's desire to test a new configuration of its HiPointer radar at the already approved locations. The overall details of the tests and experiments are as follows:

This new HP250 radar is a new product being developed by Aerostar. The radar has a higher output power and we need to be able to run the radar in a real-world scenario to ensure that our processing of radar returns and tracking is working as expected before releasing the radar as a new product. The requested locations are Aerostar facilities that we use to conduct data collections against real-world truth data to ensure proper processing of the radar data.

Aerostar International is seeking a conventional experimental license for the development of our radar products. We would like to use our current F-Series radar system that makes use of a Furuno transmitter and scanner (FCC ID: ADB9ZW RTR07) as a baseline to compare our development efforts with our HiPointer series of solid state radars under development. Our program of experiment would include transmitting of both a F-Series radar and an HiPointer radar at the same time and monitoring the tracking and target identification of both radar systems. Our goal is to qualify our new hardware designed and develop our algorithms using the doppler information available in the signal from the HiPointer radar systems to enhance our ability identify and track targets over that of the current state of art for a traditional pulsed radar.