

Statement of Work

Non Recurring Engineering (NRE) for upgrading the NRL Code 5720 Digital SIGINT System (DSS) Receiver Processor Units (RPU)

The DSS System is a manual ELINT Suite developed by SNC for the Air Force. The first system was deployed in 2012 on the Combat Cent aircraft. The DSS features include:

- A Multi-channel/Multi-User Panoramic Receiver that provides situational awareness across the radio frequency (RF) Spectrum
- Signal Frequency Analysis through the IF Pan Display
- Spinning Direction Finding (DF) capability with a Polar Display
- Pulse Descriptor Word (PDW) and Burst In-phase and quadrature (IQ) recordings

II. NRE Requirements

- A. The DSS RPU currently has a Polar DF data monitor that displays selected signals from a single antenna feed. It is desired that the Polar DF data be made available to the system user.
- B. The DSS system shall control the RF antenna selection switch.
- C. Update and provide DSS System Interface Control Documents (ICDs) and manuals, and verify new capabilities prior to delivery.