

Exhibit A

Program Description

The radar transmit-and-receive system will be coherently frequency step-chirped from the start frequency to the final frequency. Step-chirp pulse-widths and PRF's are listed in the table below. Radiated frequencies are CW. By radiating the test body, the return signals bounced off of the body are measured and compared. Transmitting and receiving antennas will be fixed. The test bodies will be mounted to fixtures (pylons or columns) that rotate the body in both Azimuth and Elevation on a center of the body axis at a height of 7.92m above the ground. The locations of these fixtures are at designated "pits" downrange from the fixed antennas. Both transmit and receive systems will be coherently phase-locked using the master SPC MKIII/MKV PLO and are controlled by a single computer system. All remaining details are classified.

Antenna Band	Frequency	Power at Transmitter (W)	Pulse Width (ns)	PRF (Hz)
L	1000-1215 MHz	14.923	95	70000
L	1300-1350 MHz	14.923	95	70000
L	1400-1999 MHz	14.923	95	70000
S	2000-2900 MHz	13.992	95	80000
S	3650-3999 MHz	13.992	95	80000
C	4000-4400 MHz	21.523	95	80000
C	4990-5250 MHz	21.523	95	80000
C	5925-7999 MHz	21.523	95	80000
X	8000-8500 MHz	15.063	95	80000
X	9000-9200 MHz	15.063	95	80000
X	10000-11999 MHz	15.063	95	80000
Ku	12000-15400 MHz	21.675	95	80000