

Exhibit 1

Purpose of this system: SAR imaging and GMTI target detection. SHARP program flight testing to be performed on an F-14 under Navy contract/direction BAA #N00019-01-R-0029. This represents an upgrade of the previously licensed system to continue testing of proposed systems, by upgrading the systems power and antenna size.

Details of increases:

(Based on paper 442)

4(B) 700 watts, peak

4(C) 700 watts times an anticipated antenna gain of 39.2 dB, ~2.2 dB (reference to half wave dipole), minus ~2.0 dB system losses.

$(700 \text{ watts}) * (3162.3) = 2.2 \text{ megawatts peak ERP referenced to a half wave dipole.}$

$(700 \text{ watts}) * (5248.1) = 3.7 \text{ megawatts peak EIRP}$