

EXHIBIT to address DIRECTIONAL ANTENNA INFORMATION

Submitted by ARTEMIS, INC. as part of FCC STA APPLICATION 0247-EX-CN-2016

In order to test the ARTEMIS SlimSAR-KA system as part of the KA-Band Army SBIR project, one or more patch antennas will be attached to a rotary-wing. The gain and beam-pattern measurements are as follows.

L-Band

Gain: 6dB

Horizontal Beam: 60 degrees

Vertical Beam: 60 degrees

X-Band

Gain: 18 dB

Horizontal Beam: 8 degrees

Vertical Beam: 45 degrees

KA-Band

Gain: 23.2021 dB

Horizontal Beam: 3.45 degrees

Vertical Beam: 11.7 degrees