

Exhibit to explain the Modification Request

14 December 2021

Applicant: ARTEMIS, Inc.

File Number: 0260-EX-CM-2021

Correspondence Reference Number: 66239

Date of Original Email: 12/07/2021

The requested modification is for File No.: 0063-EX-CM-2020, Callsign: WI2XXH.

The license is used in the testing and development of X-band and Ka-band Synthetic Aperture Radar at locations in Utah and Florida.

Through continued advancement of our radar technology, we now have radar configurations capable of greater bandwidth and greater transmit power. We need to test this radar system near and at Eglin AFB in Florida. The requested additions to the license are as follows:

- X-band frequency bandwidth increase to 9.25-10.75 GHz, a total of 1.5 GHz bandwidth.
 - X-band transmit power increase to 200 W peak power.
 - X-band antenna gain increase, to give an ERP of 24.332000 kW
 - Addition of X-band Emission Designator: 1G50M3N
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- Ka-band frequency change to 33.25-35.75, with as much as 2 GHz instantaneous bandwidth within that frequency range.
 - Ka-band transmit power increase to 100 W peak power
 - Ka-band antenna gain increase, to give an ERP of 12.166 kW.