

From: Dan Connors

To: Nimesh Sangani

Date: May 26, 2020

Subject: Additional Information Request

Message:

Re: File Number 0228-EX-CN-2020
OET Correspondence Reference Number 55385
Date of Original Email: 5/21/2020

Nimesh,

Below is Capella Space Corp.'s response to OET's Additional Information Request for the following information:

1) Satellite local time of ascending node (required for assessment)

Capella Space Corp. Response:

Capella's satellite that is the subject of the Experimental License application (File Number: 0228-EX-CN-2020) will be launched into an inclined orbit. The local time of ascending node (LTAN) for the satellite on the launch date is estimated to be 12 noon. Because the satellite will be launched into an inclined orbit, the LTAN will change as soon as launched.

Unlike inclined orbiting satellites, note that sun synchronous orbiting satellites have a fixed LTAN.

Respectfully,

Dan Connors
General Counsel
Capella Space Corp.

Footnote: The LTAN above was computed as follows: 1) Capella received an estimated state vector from Rocket Lab for a May 21 launch. 2) Capella computed the RAAN for that state and propagated it to July 15. 3) The RAAN on July 15 would be - 65°. 4) That corresponds to a LTAN of noon, at launch date.