



Hogan Lovells US LLP  
 Columbia Square  
 555 Thirteenth Street, NW  
 Washington, DC 20004  
 T +1 202 637 5600  
 F +1 202 637 5910  
 www.hoganlovells.com

October 2, 2023

**VIA ELS AND ELECTRONIC MAIL**

Marlene H. Dortch  
 Secretary  
 Federal Communications Commission  
 45 L Street, NE  
 Washington, DC 20554

**Re: Apex Technology, Inc.  
 File No. 1370-EX-CN-2023**

Dear Ms. Dortch,

By this letter, Apex offers an update regarding the above referenced Apex Aries 1 experimental satellite license application. The supporting technical annex (table 3) indicates the Apex Aries 1 satellite may host certain payloads, and the legal narrative (page 2-3), technical annex (footnote 18), and orbital debris assessment report (“ODAR”) (various sections) indicate the Apex Aries 1 satellite may host a propulsion system. The satellite will not host the RAFTI and SPARK payloads and propulsion system and, in their absence, will carry fully demisable (aluminum) mass simulators.

For the payload removals, below is the updated technical annex reference.

\* \* \*

*Table 3: Payloads<sup>7</sup>*

Payload	Function
RAFTI <sup>8</sup>	<del>grapple fixture flight heritage (but no docking using Apex Aries 1)</del>
SPARK <sup>9</sup>	<del>camera and computer sensor suite for on-orbit RPO, as described below</del>
SPARK Visible Camera	visible camera for RPO
SPARK Long-Wave Infrared Cameras	two long-wave infrared cameras for RPO
SPARK Computer	<del>computer module calculating the RPO algorithms on-board</del>
Astroscale Docking Plate	docking plate flight heritage

<sup>7</sup> ~~None have radiofrequency components requiring licensing except the power amplifier.~~

<sup>8</sup> ~~RAFTI is Rapidly Attachable Fluid Transfer Interface.~~

<sup>9</sup> ~~SPARK is Smart Prox Ops and Rendezvous Kit.~~

Payload	Function
Apex Payload Camera	diagnostic camera for solar array deployment verification
Ubotica XE-2	edge compute processor for in-space computation demonstration
Ubotica CogniSAT	diagnostic camera for wide field-of-view imaging of solar array deployment verification
Northrop Grumman Power Amplifier	X-band power amplifier technical demonstration

\* \* \*

For the propulsion system removal, this correspondence confirms that the Apex Aries 1 satellite will not host a propulsion system, notes the filed ODAR already considers all non-propulsive scenarios, and asks that the application’s other propulsion references not receive further FCC consideration.

Given these changes, the satellite will only demonstrate functionality for each subsystem and validate satellite performance (e.g., communications, data handling, high accuracy pointing control, etc.) on orbit with no propulsion system testing or rendezvous or proximity operations occurring.

Please contact me with questions. Thank you.

Respectfully submitted,

/s/ George V. John

George V. John  
Senior Associate  
george.john@hoganlovells.com  
D +1 202 637 6989

*Counsel to Apex Technology, Inc.*

cc: (via email)  
Nimesh Sangani  
Merissa Velez  
Samuel Karty