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October 20, 2017

**VIA IBFS**

Ms. Marlene H. Dortch  
Secretary  
Federal Communications Commission  
445 12th Street, SW  
Washington, DC 20554

Re: IBFS File No. SAT-LOA-20170508-00071

Dear Ms. Dortch:

On October 18, 2017, representatives of Astro Digital US, Inc. (“Astro Digital”) met with the International Bureau (“Bureau”) and Office of Engineering and Technology (“OET”) to discuss various Astro Digital filings, including the above-referenced satellite application, which is subject to permit-but-disclose *ex parte* rules.<sup>1</sup> Participating in the meeting on behalf of Astro Digital were: Chris Biddy, Chief Executive Officer; Jan King, Chief Technical Officer (by phone); Peter Ruderman, General Counsel; and Tony Lin, outside counsel. Participating in the meeting on behalf of the Bureau and OET were: Jose Albuquerque, Satellite Division Chief; Stephen Duall, Policy Branch Chief; Alyssa Roberts, Attorney Advisor, Policy Branch; and Tony Serafini, Experimental Licensing Branch Chief.

During the meeting, Astro Digital requested grant of the above-referenced satellite application and discussed the timing of the company’s upcoming launches. Astro Digital also reiterated its position that the filings of Telesat Canada and Iridium Constellation LLC did not provide a basis to deny or delay grant of the Astro Digital application.<sup>2</sup> Attached are slides presented at the meeting relevant to the above-referenced satellite application.

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<sup>1</sup> See Public Notice, Report No. SAT-01276, DA 17-1007 (Oct. 13, 2017).

<sup>2</sup> See Astro Digital US, Inc., Consolidated Opposition and Response, at 3-5 (Oct. 11, 2017).

Please direct any questions regarding this letter to the undersigned.

Respectfully submitted,

/s/ Tony Lin

Tony Lin  
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Attachment

cc: (via email)  
Jose Albuquerque  
Stephen Duall  
Alyssa Roberts  
Tony Serafini

## CERTIFICATE OF SERVICE

I, Sarah Leggin, hereby certify that on October 20, 2017, a true and correct copy of this letter was sent by United States mail, first class postage prepaid, to the following:

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/s/ Sarah Leggin

Sarah Leggin



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Presentation to the  
Federal Communications Commission  
Astro Digital  
Space Station Application

Chris Biddy; CEO  
Peter Ruderman; General Counsel  
Astro Digital US, Inc.

18 October 2017



# Launch Schedule

- Next two launches
  - November 28, 2017 - 1 x Landmapper-BC
  - December 20, 2017 - 1 x Landmapper-BC
- Tentative schedule below:

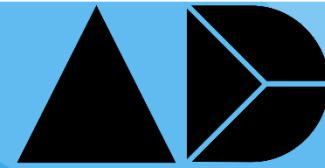
# of satellites	Satellite Type	Status	Launch date
1	Landmapper-BC	Booked	11/28/2017
1	Landmapper-BC	Booked	12/20/2017
2	Landmapper-BC	Booked	Q1 2018
2	Landmapper-BC	Planned	Q3 2018
2	Landmapper-BC	Booked	Q4 2018
2	Landmapper-BC	Planned	Q1 2019
1	Landmapper-HD	Booked	12/28/2018
4	Landmapper-HD	Planned	Q2 2019
6	Landmapper-HD	Planned	Q3 2019
4	Landmapper-HD	Planned	Q4 2019
5	Landmapper-HD	Planned	Q1 2020



ASTRO<sup>3</sup>  
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# Space Station Application

- File No. SAT-LOA-20170508-00071 (filed May 8, 2017)
- Given launch schedule, AD requires grant by November 28
  - December 20, 2017 is an option if FCC grants pending experimental license (ELS File No. 0021-EX-CM-2016)
- Telesat and Iridium interference concerns are without merit



# Coordination Status

- Successful coordination completed with commercial operators ORBCOMM and SPIRE - (UHF) for Previous Part 5 license (WH2XXT)
  - ORBCOMM and AD - shared frequency band: 400.15-401 MHz
  - SPIRE and AD - shared frequency band: 402-403 MHz
- NOAA
  - Initial Ka-band pre-coordination regarding JPSS System
  - No interference case found even with adjacent earth station at Svalbard
  - No specific objections by NOAA on other frequencies, agreed to meet after October 23, 2017
- NASA
  - Bill Horne at Astro Digital facilities (Feb 2017) - briefed on system plans for Landmapper
    - Primary focused on Ka-band usage
  - Discussions with NASA at CSSMA - with single KSAT ground station and 30 sats, interference concerns have not been expressed
  - Following up with NASA this week with additional information on planned system