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December 8, 2014

VIA ELECTRONIC FILING

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

Re: Clarification to ESAA Application Information, File Nos. SES-LIC-20140902-00688 and SES-AMD-20141117-00858, Call Sign E140087

Dear Ms. Dortch:

Astronics AeroSat hereby clarifies the above-referenced application, as amended, in order to update item E32 in Form 312 Schedule B (antenna diameter) and confirm the information provided in items E41/E42 of that form (antenna gain transmit and/or receive values).

Although the application materials specified antenna dimensions in the narrative, the effective antenna size was omitted from Form 312, E32 due to uncertainty regarding the non-circular, asymmetrical nature of the HR6400 terminal. Astronics AeroSat notes that the Commission previously authorized Gogo LLC to operate the HR6400 terminal and the antenna diameter included in the Gogo license for the HR6400 terminal is 0.24m. This value reflects the effective size of the antenna when considering its dimensions and applying known cable losses. Astronics AeroSat agrees that .24m is an appropriate effective size for the HR6400 terminal and respectfully requests this value likewise be considered as the antenna diameter for this application.

With respect to the information for items E41/42, Astronics AeroSat included two values for antenna gain - 31.8 dBi at 11.7 GHz and 29.0 dBi at 14.47 GHz. In a subsequent amendment, Astronics AeroSat included no information in E41/42 because those values did not change from the original application. Astronics AeroSat hereby confirms the original values and

¹ See Gogo LLC, File Nos. SES-LIC-20120619-00574 & SES-AMD-20120731-00709, Call Sign E120106; see also Gogo LLC, File No. SES-MFS-20131114-01015, Call Sign E120106. Indeed, Gogo provided a similar update to its application regarding antenna size. See Letter from Karis Hastings, File Nos. SES-LIC-20120619-00574 & SES-AMD-20120731-00709, Call Sign E120106 (dated August 22, 2012.)

clarifies that the difference in reported transmit and receive gain is principally related to the difference in reference positions on the terminal (i.e., the locations where gain is measured).

Specifically, in the receive path, the gain reference position is at the polarization converter output because that is where the LNA is mounted. In the transmit path, the frame of reference is at the PA output of the HPT, which includes the 3.5 dB of cable loss. Notwithstanding differences in the gain reference location, Astronics AeroSat believes that these values adequately reflect the gain performance characteristics of the antenna.

Astronics AeroSat would also note that the same values are included in the current and past Gogo licenses for the HR6400 terminal. Astronics AeroSat agrees that these values reflect the gain characteristics of the HR6400 terminal. Thus, as with previously issued authorizations for the HR6400 terminal, Astronics AeroSat respectfully requests these values be included in its FCC license as reflected in the original application materials.

Please do not hesitate to contact me with any questions regarding the foregoing.

Sincerely,

Carlos M. Nalda

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cc: Paul Blais

 2 See, e.g., Gogo LLC, File Nos. SES-MFS-20131114-01015 and SES-AFS-20121008-00902, Call Sign E120106.