

12 September 2016

Federal Communications Commission
International Bureau
445 12th Street, SW
Washington, D.C. 20554

Re: Engineering Certification of Intelsat

To Whom It May Concern:

This letter certifies that Intelsat is aware that Astronics AeroSat ("Astronics") is planning to seek authorization from the Federal Communications Commission ("FCC") to operate Ku-band transmit/receive earth stations aboard aircraft ("ESAA") terminals with the IS-14 satellite located at 45° W.L., the IS-15 satellite located at 85° E.L., the IS-19 satellite located at 166° E.L., the IS-22 satellite located at 72.1° E.L., the IS-29e satellite located at 50° W.L. and the Galaxy 3C satellite located at 95.05° W.L.. Specifically, we understand that in addition to the previously authorized antenna systems, Astronics seeks to operate the AeroSat HR6400 antenna system with these satellites for commercial purposes consistent with the FCC's ESAA rules, including Section 25.227.

Based on the information provided by Astronics, Intelsat understands the technical characteristics of the AeroSat HR6400 and Intelsat (i) recognizes that operation of these terminals at the power density levels provided to Intelsat is consistent with existing coordination agreements with all adjacent satellite operators within +/- 6 degrees of orbital separation from IS-14, IS-15, IS-19, IS-22, IS-29e and Galaxy 3C; (ii) acknowledges that the proposed operation of these terminals has the potential to receive harmful interference from adjacent satellite networks that may be unacceptable; and (iii) if the FCC authorizes the operations proposed by Astronics, Intelsat will take into consideration the power density levels associated such operations in all future satellite network coordinations with adjacent satellite operators.

Sincerely,



Dick Evans
Senior Principal Regulatory Engineer, Spectrum Engineering
Intelsat

12 September 2016

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International Bureau
445 12th Street, SW
Washington, D.C. 20554

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This letter certifies that Intelsat is aware that Astronics AeroSat ("Astronics") is planning to seek authorization from the Federal Communications Commission ("FCC") to operate Ku-band transmit/receive earth stations aboard aircraft ("ESAA") terminals with the IS-14 satellite located at 45° W.L., the IS-15 satellite located at 85° E.L., the IS-19 satellite located at 166° E.L., the IS-22 satellite located at 72.1° E.L., the IS-29e satellite located at 50° W.L. and the Galaxy 3C satellite located at 95.05° W.L.. Specifically, we understand that in addition to the previously authorized antenna systems, Astronics seeks to operate the AeroSat HR129 antenna system with these satellites for commercial purposes consistent with the FCC's ESAA rules, including Section 25.227.

Based on the information provided by Astronics, Intelsat understands the technical characteristics of the AeroSat HR129 and Intelsat (i) recognizes that operation of these terminals at the power density levels provided to Intelsat is consistent with existing coordination agreements with all adjacent satellite operators within +/- 6 degrees of orbital separation from IS-14, IS-15, IS-19, IS-22, IS-29e and Galaxy 3C; (ii) acknowledges that the proposed operation of these terminals has the potential to receive harmful interference from adjacent satellite networks that may be unacceptable; and (iii) if the FCC authorizes the operations proposed by Astronics, Intelsat will take into consideration the power density levels associated such operations in all future satellite network coordinations with adjacent satellite operators.

Sincerely,



Dick Evans
Senior Principal Regulatory Engineer, Spectrum Engineering
Intelsat



eutelsat

September 6, 2016

Federal Communications Commission
International Bureau
445 12th Street, S.W.
Washington, D.C. 20554

**Re: Engineering Certification of Eutelsat Americas
(HR129 on E115WB and E117WA)**

To Whom It May Concern:

This letter certifies that Eutelsat Americas (“EAS”) is aware that Astronics AeroSat Corporation (“Astronics AeroSat”) is planning to seek authorization from the Federal Communications Commission (“FCC”) to operate Ku-band transmit/receive earth stations aboard aircraft (“ESAA”) terminals with the Eutelsat 115WB (E115WB) satellite located at 114.9° W.L and the Eutelsat 117WA (E117WA) satellite located at 116.8° W.L. Specifically, we understand that Astronics AeroSat seeks to operate the HR129 Ku-band antenna system with E115WB and E117WA for commercial purposes consistent with the FCC’s ESAA rules, including Section 25.227.

Based on the information provided by Astronics AeroSat, EAS understands the technical characteristics of the HR129 terminal, and EAS (i) recognizes that operation of the HR129 terminals at the power density levels provided to EAS is consistent with existing coordination agreements with all adjacent satellite operators within +/- 6 degrees of orbital separation from E115WB and E117WA; (ii) acknowledges that the proposed operation of the HR6400 terminal has the potential to receive harmful interference from adjacent satellite networks that may be unacceptable; (iii) if the operation of this antenna should cause unacceptable interference towards adjacent satellite networks, Astronics AeroSat agrees to cease transmissions immediately upon notice from EAS; and (iv) if the FCC authorizes the operations proposed by Astronics AeroSat, EAS will take into consideration the power density levels associated with such operations in future satellite network coordinations with adjacent satellite operators.

Sincerely,

Hector Fortis
Eutelsat Americas
International and Regulatory Affairs



September 6, 2016

Federal Communications Commission
International Bureau
445 12th Street, S.W.
Washington, D.C. 20554

Re: Engineering Certification of Eutelsat Americas (HR6400 on E115WB)

To Whom It May Concern:

This letter certifies that Eutelsat Americas (“EAS”) is aware that Astronics AeroSat Corporation (“Astronics AeroSat”) is planning to seek authorization from the Federal Communications Commission (“FCC”) to operate Ku-band transmit/receive earth stations aboard aircraft (“ESAA”) terminals with the Eutelsat 115WB (E115WB) satellite located at 114.9° W.L. Specifically, we understand that Astronics AeroSat seeks to operate the previously authorized HR6400 Ku-band antenna system with E115WB for commercial purposes consistent with the FCC’s ESAA rules, including Section 25.227.

Based on the information provided by Astronics AeroSat, EAS understands the technical characteristics of the HR6400 terminal, and EAS (i) recognizes that operation of the HR6400 terminals at the power density levels provided to EAS is consistent with existing coordination agreements with all adjacent satellite operators within +/- 6 degrees of orbital separation from E115WB; (ii) acknowledges that the proposed operation of the HR6400 terminal has the potential to receive harmful interference from adjacent satellite networks that may be unacceptable; (iii) if the operation of this antenna should cause unacceptable interference towards adjacent satellite networks, Astronics AeroSat agrees to cease transmissions immediately upon notice from EAS; and (iv) if the FCC authorizes the operations proposed by Astronics AeroSat, EAS will take into consideration the power density levels associated with such operations in future satellite network coordinations with adjacent satellite operators.

Sincerely,

A handwritten signature in black ink, appearing to read "Hector Fortis", written over a horizontal line.

Hector Fortis
Eutelsat Americas
International and Regulatory Affairs

A handwritten signature in black ink, appearing to read "J. J.", written in the bottom right corner of the page.