

# JONES DAY

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December 15, 2014

## BY ELECTRONIC FILING

Paul Blais  
System Analysis Branch, Satellite Division  
International Bureau  
Federal Communications Commission  
445 12th Street SW  
Washington, DC 20554

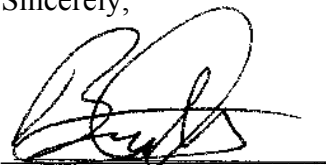
Re: **IBFS File No. SES-LIC-20140922-00748**  
**Supplement to Amend Satellite Coordination Letters From**  
**Eutelsat and SKY Perfect**

Dear Mr. Blais,

Please find attached amended versions of two satellite operator coordination letters from Eutelsat, S.A. (“Eutelsat”) and SKY Perfect JSAT Corporation (“SKY Perfect”) for operation of the Boeing Broadband Satcom Network (“BBSN”), to be included as a supplement to the above-captioned application of The Boeing Company (“Boeing”).<sup>1</sup> Boeing seeks Commission authority to operate BBSN with Eutelsat satellites 7A, 36B, 113WA, and 172A and with SKY Perfect satellite Superbird C2. The attached letters have been revised to conform to the requirements of Section 25.227(b)(3)(ii) of the Commission’s ESAA rules.<sup>2</sup>

Please let us know if you have any questions about the amended letters.

Sincerely,



Bruce A. Olcott

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<sup>1</sup> Application of The Boeing Company for Authority to Operate Up to 100 Earth Stations Aboard Aircraft, File No. SES-LIC-20140922-00748 (Filed Sep. 22, 2014).

<sup>2</sup> 47 C.F.R. § 25.227(b)(3)(ii).



**eutelsat**

communications via satellite

December 11, 2014

Ms. Carol Peterson  
Supplier Management  
The Boeing Company  
P.O. Box 3707  
Seattle, WA 98124-2207

Re: Eutelsat Power Level Density Certification for Boeing Earth Station Aboard Aircraft (ESAA) transmissions.

Dear Ms. Peterson,

Eutelsat confirms and hereby certifies the following with respect to the operations proposed in the above reference application:

(a) The proposed Ku-band Earth Station Aboard Aircraft (ESAA) operation of The Boeing Company has the potential to create harmful interference to satellite networks adjacent to the target satellite(s) that may be unacceptable;

(b) The Boeing Company is currently using Eutelsat capacity on the following satellites: Eutelsat 7A at 7°East ("E7A"), Eutelsat 36B at 36°East ("E36B"), Eutelsat 113WA at 113°West ("E113WA"). and Eutelsat 172A at 172°East ("E172A"). These operations are subject of the following conditions:

The off-axis EIRP in any 40 kHz band in the direction of an adjacent satellite shall not exceed the following values:

	dBW	for	$2^\circ < \theta < 7^\circ$
	dBW	for	$7^\circ < \theta < 9.2^\circ$
}	dBW	for	$9.2^\circ < \theta < 48^\circ$
	dBW	for	$48^\circ < \theta$

Where  $\theta$  is the angle, in degrees, between the main-beam axis and the direction considered,

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And where Y is defined, according the satellite - transponder as follow:

Capacity	Frequency band (MHz)	Polarisation	Y
E7A - J2	14133 - 14160	Y	
E36B - G6	14208 - 14244	X	
E172A - 1N	14259 - 14287	X	
E172A - 3P	14341 - 14377	Y	
E172A - 4W	14083 - 14155	Y	
E172A - 5N	14379 - 14407	X	
E113WA - 18K	14342 - 14378	X	

The existing services operated by Boeing on the mentioned satellites, when operated in the prescribed manner, do not result in unacceptable interference to the adjacent satellite networks.

The above power density levels are consistent with the Eutelsat's coordination agreements for the satellite here above mentioned.

Eutelsat confirms that, if operated as described here above, operation of the Boeing ESAA terminal will not cause unacceptable interference into operations of the satellites adjacent to E7A, E36B, E113WA and E172A.

If the FCC authorizes the operations proposed by Boeing, Eutelsat will include the power density levels specified above in this letter in all future satellite network coordination with operators of satellites that are adjacent to those satellites addressed by this letter.

Please let us know if you require any further support from Eutelsat relative to Boeing's operations on the Eutelsat satellites.

Sincerely,

  
 for Eutelsat  
 Jacques Dutronc  
 Chief Development and Innovation Officer

www.eutelsat.com



SKY Perfect JSAT  
Corporation

SKY Perfect JSAT Corporation  
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Tokyo 107-0052, Japan  
TEL +81-3-5571-7800

*September 18, 2014*

The Boeing Company  
P.O. Box 3707  
Seattle, WA 98124-2207

Re: Satellite Operator Coordination Certification of Boeing Earth Station Aboard Aircraft (ESAA)  
License Application.

To Whom it May Concern,

**SKY Perfect JSAT Corporation** confirms and hereby certifies the following with respect to the operations proposed in the above referenced application in accordance with section 25.227 paragraph (b)(3) of the Code of Federal Regulations:

- (a). The proposed Ku-band Earth Station Aboard Aircraft (ESAA) operation of The Boeing Company has the potential to create harmful interference to satellite networks adjacent to the target satellite(s) that may be unacceptable;
- (b). The power density levels that Boeing provided to this Satellite Operator are consistent with the existing coordination agreements between the Superbird-C2 satellite and the adjacent satellite networks within 6 degrees of orbital separation from the satellite, and
- (c). The power density levels of the proposed ESAA operations will be included in future coordination agreements.

Please let us know if additional information is required.

Sincerely,

Sky Perfect JSAT Corporation

Mitsuru Ishii  
General Manager  
Mobile Business Division  
Space & Satellite Business Group