

E140097 SES-STA-20150910-00574 IB2015001618
The Boeing Company

Approved by OMB
3060-0678

APPLICATION FOR EARTH STATION SPECIAL TEMPORARY AUTHORITY

APPLICANT INFORMATION Enter a description of this application to identify it on the main menu:
BBSN (E140097) Modification, add ViaSat Antenna

1. Applicant

Name:	The Boeing Company	Phone Number:	206-544-6053
DBA Name:		Fax Number:	206-662-0701
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City:	Seattle	State:	WA
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Attention:	Allen S. Lindsay, SR		



File # SES-STA-20150910-00574
E140097
Call Sign E140097 Grant Date 9-12-15
(or other identifier)
Term Dates
From: 9-14-15 To: 10-11-15
Approved: [Signature]

Applicant: The Boeing Company
 File No.: SES-STA-20150910-00574
 Call Sign: Not Applicable



File # SES-STA-20150910-00574
E140097
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 (or other identifier) _____
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 From: 9-14-15 To: 10-14-15
 Approved: [Signature]

The Boeing Company, (Boeing) is granted special temporary authority for 30 days to flight test a Viasat KuKarray antenna over international waters transiting both the Atlantic and Pacific oceans with satellites currently authorized under E140097

1. Authorization is granted only for operations within the following limits:

Frequency Band	Emissions	Maximum E.I.R.P.	Maximum E.I.R.P. Density
11.45-11.7 GHz	32M4G7D	0	0
11.7-12.2 GHz	32M4G7D	0	0
12.2-12.75 GHz	32M4G7D	0	0
14.0-14.5 GHz	32M4G7D	47 dBW	8 dBW/4KHz

2. All operations shall be on an unprotected, non-interference basis. In the event of any harmful interference, cease operations immediately and inform the Commission, in writing, immediately
3. Operation pursuant to this authorization must be in compliance with the terms of Boeing's coordination agreements with the National Science Foundation and the National Aeronautics and Space Administration pertaining to operation of aircraft earth stations in the Ku-band. Boeing, however, is not authorized to operate in the 14.0-14.2 GHz frequency band within line-of-sight of the Blossom Point, MD facility until its agreement is updated to reflect the to reflect operations at that facility.
4. When operating in international airspace within line-of-sight of the territory of a foreign administration where Fixed Service networks have a primary allocation in the 14.0-14.5 GHz band, an aircraft earth station must not produce ground-level power flux density (pfd) in such territory in excess of the following values unless the foreign administration has imposed other conditions for protecting its FS stations: $-132 + 0.5 \times \text{THETA dB(W/(m^2 MHz))}$ for $\text{THETA} \leq 40^\circ$; $-112 \text{ dB(W/(m^2 MHz))}$ for $40^\circ < \text{THETA} \leq 90^\circ$. Where: THETA is the angle of arrival of the radio-frequency wave in degrees above the horizontal, and the aforementioned limits relate to the pfd and angles of arrival that would be obtained under free space propagation conditions.
5. Operation pursuant to this authorization outside the United States in the 14.0-14.5 GHz band must be in compliance with the provisions of Annex 1, Part C of Recommendation ITU-R M.1643, with respect to any radio astronomy station performing observations in the 14.47-14.5 GHz band.
6. Aircraft earth stations authorized herein must employ a tracking algorithm that is resistant to capturing and tracking adjacent satellite signals, and each station must be capable of inhibiting its own transmission in the event it detects unintended satellite tracking.