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APPLICATION FOR EARTH STATION AUTHORIZATIONS  FCC 312 MAIN FORM FOR OFFICIAL USE ONLY	FCC Use Only
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**APPLICANT INFORMATION**

Enter a description of this application to identify it on the main menu:

Application for blanket authority to operate 1,000 earth stations onboard vessels ("ESVs").

1-8. Legal Name of Applicant

<b>Name:</b>	The Boeing Company	<b>Phone Number:</b>	206-655-5399
<b>DBA Name:</b>		<b>Fax Number:</b>	206-655-5296
<b>Street:</b>	P.O. Box 3707 MC 14-07	<b>E-Mail:</b>	craig.holman@boeing.com
<b>City:</b>	Seattle	<b>State:</b>	WA
<b>Country:</b>	USA	<b>Zipcode:</b>	98124 -2207
<b>Attention:</b>	Mr Craig Holman		

9-16. Name of Contact Representative

<b>Name:</b>	Carlos M. Nalda	<b>Phone Number:</b>	202-434-7333
<b>Company:</b>	Mintz, Levin, Cohn, Ferris, Glovsky and Popeo, PC	<b>Fax Number:</b>	202-434-7400
<b>Street:</b>	701 Pennsylvania Ave. N.W. Suite 900	<b>E-Mail:</b>	
<b>City:</b>	Washington	<b>State:</b>	DC
<b>Country:</b>	USA	<b>Zipcode:</b>	20004-
<b>Attention:</b>	Carlos M. Nalda	<b>Relationship:</b>	Legal Counsel

CLASSIFICATION OF FILING

17. Choose the button next to the classification that applies to this filing for both questions a. and b. Choose only one for 17a and only one for 17b.

a.

- a1. Earth Station
- (N/A) a2. Space Station

b.

- b1. Application for License of New Station
- b2. Application for Registration of New Domestic Receive-Only Station
- (N/A) b3. Amendment to a Pending Application
- (N/A) b4. Modification of License or Registration
- (N/A) b5. Assignment of License or Registration
- (N/A) b6. Transfer of Control of License or Registration
- (N/A) b7. Notification of Minor Modification
- (N/A) b8. Application for License of New Receive-Only Station Using Non-U.S. Licensed Satellite
- (N/A) b9. Letter of Intent to Use Non-U.S. Licensed Satellite to Provide Service in the United States
- b10. Other (Please specify)
- b11. Application for Earth Station to Access a Non-U.S. satellite Not Currently Authorized to Provide the Proposed Service in the Proposed Frequencies in the United States.



<p>21. STATUS: Choose the button next to the applicable status. Choose only one.</p> <p><input type="radio"/> Common Carrier    <input checked="" type="radio"/> Non-Common Carrier</p>	<p>22. If earth station applicant, check all that apply.</p> <p><input checked="" type="checkbox"/> Using U.S. licensed satellites</p> <p><input checked="" type="checkbox"/> Using Non-U.S. licensed satellites</p>
<p>23. If applicant is providing INTERNATIONAL COMMON CARRIER service, see instructions regarding Sec. 214 filings. Choose one. Are these facilities:</p> <p><input type="radio"/> Connected to a Public Switched Network    <input checked="" type="radio"/> Not connected to a Public Switched Network    <input type="radio"/> N/A</p>	
<p>24. FREQUENCY BAND(S): Place an "X" in the box(es) next to all applicable frequency band(s).</p> <p><input type="checkbox"/> a. C-Band (4/6 GHz)    <input checked="" type="checkbox"/> b. Ku-Band (12/14 GHz)</p> <p><input checked="" type="checkbox"/> c. Other (Please specify upper and lower frequencies in MHz.)</p> <p>Frequency Lower:    Frequency Upper:</p>	

#### TYPE OF STATION

<p>25. CLASS OF STATION: Choose the button next to the class of station that applies. Choose only one.</p> <p><input type="radio"/> a. Fixed Earth Station</p> <p><input type="radio"/> b. Temporary-Fixed Earth Station</p> <p><input type="radio"/> c. 12/14 GHz VSAT Network</p> <p><input type="radio"/> d. Mobile Earth Station</p> <p>(N/A) e. Geostationary Space Station</p> <p>(N/A) f. Non-Geostationary Space Station</p> <p><input checked="" type="radio"/> g. Other (please specify) Earth Station Onboard Vessels</p>
<p>26. TYPE OF EARTH STATION FACILITY: Choose only one.</p> <p><input checked="" type="radio"/> Transmit/Receive    <input type="radio"/> Transmit-Only    <input type="radio"/> Receive-Only    <input type="radio"/> N/A</p>

PURPOSE OF MODIFICATION

27. The purpose of this proposed modification is to: (Place an 'X' in the box(es) next to all that apply.)

Not Applicable

ENVIRONMENTAL POLICY

28. Would a Commission grant of any proposal in this application or amendment have a significant environmental impact as defined by 47 CFR 1.1307? If YES, submit the statement as required by Sections 1.1308 and 1.1311 of the Commission's rules, 47 C.F.R. §§ 1.1308 and 1.1311, as an exhibit to this application. A Radiation Hazard Study must accompany all applications for new transmitting facilities, major modifications, or major amendments.

Yes  No

ALIEN OWNERSHIP Earth station applicants not proposing to provide broadcast, common carrier, aeronautical en route or aeronautical fixed radio station services are not required to respond to Items 30–34.

29. Is the applicant a foreign government or the representative of any foreign government?  Yes  No

30. Is the applicant an alien or the representative of an alien?  Yes  No  N/A

31. Is the applicant a corporation organized under the laws of any foreign government?

Yes  No  N/A

32. Is the applicant a corporation of which more than one-fifth of the capital stock is owned of record or voted by aliens or their representatives or by a foreign government or representative thereof or by any corporation organized under the laws of a foreign country?

Yes  No  N/A

33. Is the applicant a corporation directly or indirectly controlled by any other corporation of which more than one-fourth of the capital stock is owned of record or voted by aliens, their representatives, or by a foreign government or representative thereof or by any corporation organized under the laws of a foreign country?

Yes  No  N/A

34. If any answer to questions 29, 30, 31, 32 and/or 33 is Yes, attach as an exhibit an identification of the aliens or foreign entities, their nationality, their relationship to the applicant, and the percentage of stock they own or vote.

#### BASIC QUALIFICATIONS

35. Does the Applicant request any waivers or exemptions from any of the Commission's Rules?  
If Yes, attach as an exhibit, copies of the requests for waivers or exceptions with supporting documents.

Yes  No

Waiver

36. Has the applicant or any party to this application or amendment had any FCC station authorization or license revoked or had any application for an initial, modification or renewal of FCC station authorization, license, or construction permit denied by the Commission? If Yes, attach as an exhibit, an explanation of circumstances.

Yes  No

37. Has the applicant, or any party to this application or amendment, or any party directly or indirectly controlling the applicant ever been convicted of a felony by any state or federal court? If Yes, attach as an exhibit, an explanation of circumstances.

Yes  No

Question 37

38. Has any court finally adjudged the applicant, or any person directly or indirectly controlling the applicant, guilty of unlawfully monopolizing or attempting unlawfully to monopolize radio communication, directly or indirectly, through control of manufacture or sale of radio apparatus, exclusive traffic arrangement or any other means or unfair methods of competition? If Yes, attach as an exhibit, an explanation of circumstances

Yes  No

39. Is the applicant, or any person directly or indirectly controlling the applicant, currently a party in any pending matter referred to in the preceding two items? If yes, attach as an exhibit, an explanation of the circumstances.

Yes  No

40. If the applicant is a corporation and is applying for a space station license, attach as an exhibit the names, address, and citizenship of those stockholders owning a record and/or voting 10 percent or more of the Filer's voting stock and the percentages so held. In the case of fiduciary control, indicate the beneficiary(ies) or class of beneficiaries. Also list the names and addresses of the officers and directors of the Filer.

41. By checking Yes, the undersigned certifies, that neither applicant nor any other party to the application is subject to a denial of Federal benefits that includes FCC benefits pursuant to Section 5301 of the Anti-Drug Act of 1988, 21 U.S.C. Section 862, because of a conviction for possession or distribution of a controlled substance. See 47 CFR 1.2002(b) for the meaning of "party to the application" for these purposes.

Yes  No

42a. Does the applicant intend to use a non-U.S. licensed satellite to provide service in the United States? If Yes, answer 42b and attach an exhibit providing the information specified in 47 C.F.R. 25.137, as appropriate. If No, proceed to question 43.

Yes  No

Question 42A

42b. What administration has licensed or is in the process of licensing the space station? If no license will be issued, what administration has coordinated or is in the process of coordinating the space station? China, Russia, Japan, France and Brazil



43. Description. (Summarize the nature of the application and the services to be provided). (If the complete description does not appear in this box, please go to the end of the form to view it in its entirety.)

The Boeing Company seeks blanket authority to operate 1,000 transmit and receive earth stations onboard vessels (''ESVs'').

Narrative

#### CERTIFICATION

The Applicant waives any claim to the use of any particular frequency or of the electromagnetic spectrum as against the regulatory power of the United States because of the previous use of the same, whether by license or otherwise, and requests an authorization in accordance with this application. The applicant certifies that grant of this application would not cause the applicant to be in violation of the spectrum aggregation limit in 47 CFR Part 20. All statements made in exhibits are a material part hereof and are incorporated herein as if set out in full in this application. The undersigned, individually and for the applicant, hereby certifies that all statements made in this application and in all attached exhibits are true, complete and correct to the best of his or her knowledge and belief, and are made in good faith.

44. Applicant is a (an): (Choose the button next to applicable response.)

- Individual
- Unincorporated Association
- Partnership
- Corporation
- Governmental Entity
- Other (please specify)

45. Name of Person Signing Craig Holman	46. Title of Person Signing Counsel
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47. Please supply any need attachments.

Attachment 1: Question 24	Attachment 2:	Attachment 3:
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WILLFUL FALSE STATEMENTS MADE ON THIS FORM ARE PUNISHABLE BY FINE AND / OR IMPRISONMENT  
(U.S. Code, Title 18, Section 1001), AND/OR REVOCATION OF ANY STATION AUTHORIZATION  
(U.S. Code, Title 47, Section 312(a)(1)), AND/OR FORFEITURE (U.S. Code, Title 47, Section 503).

SATELLITE EARTH STATION AUTHORIZATIONS  
 FCC Form 312 – Schedule B:(Technical and Operational Description)  
 FOR OFFICIAL USE ONLY

Location of Earth Station Site

E1. Site Identifier:	N/A Mobile	E5. Call Sign:	
E2. Contact Name	Mike Turner	E6. Phone Number:	253-773-0609
E3. Street:	Boeing Co., Bldg 18-03, Room 21C6	E7. City:	Kent
	20403 68th Avenue South	E8. County:	King
E4. State	WA	E9. Zip Code	98203
E10. Area of Operation:	ALSAT		
E11. Latitude:	0 °0 '0.0 "		
E12. Longitude:	0 °0 '0.0 "		
E13. Lat/Lon Coordinates are:	<input type="radio"/> NAD-27	<input checked="" type="radio"/> NAD-83	<input type="radio"/> N/A
E14. Site Elevation (AMSL):	0.0 meters		

<p>E15. If the proposed antenna(s) operate in the Fixed Satellite Service (FSS) with geostationary satellites, do(es) the proposed antenna(s) comply with the antenna gain patterns specified in Section 25.209(a) and (b) as demonstrated by the manufacturer's qualification measurement? If NO, provide as Technical Analysis a technical analysis showing compliance with two-degree spacing policy.</p>	<p><input type="radio"/> Yes   <input type="radio"/> No   <input checked="" type="radio"/> N/A</p>
<p>E16. If the proposed antenna(s) do not operate in the Fixed Satellite Service (FSS), or if they operate in the Fixed Satellite Service (FSS) with non-geostationary satellites, do(es) the proposed antenna(s) comply with the antenna gain patterns specified in Section 25.209(a2) and (b) as demonstrated by the manufacturer's qualification measurements?</p>	<p><input type="radio"/> Yes   <input type="radio"/> No   <input checked="" type="radio"/> N/A</p>
<p>E17. Is the facility operated by remote control? If YES, provide the location and telephone number of the control point.</p>	<p><input checked="" type="radio"/> Yes   <input type="radio"/> No</p>

<p>E18. Is frequency coordination required? If YES, attach a frequency coordination report as</p>	<p><input type="radio"/> Yes   <input checked="" type="radio"/> No</p>
<p>E19. Is coordination with another country required? If YES, attach the name of the country(ies) and plot of coordination contours as</p>	<p><input type="radio"/> Yes   <input checked="" type="radio"/> No</p>
<p>E20. FAA Notification – (See 47 CFR Part 17 and 47 CFR part 25.113(c)) Where FAA notification is required, have you attached a copy of a completed FCC Form 854 and or the FAA's study regarding the potential hazard of the structure to aviation?  <b>FAILURE TO COMPLY WITH 47 CFR PARTS 17 AND 25 WILL RESULT IN THE RETURN OF THIS APPLICATION.</b></p>	<p><input type="radio"/> Yes   <input checked="" type="radio"/> No</p>

**POINTS OF COMMUNICATION**

<p>Satellite Name:SESAT   SESAT   36 E.L.   If you selected OTHER, please enter the following:</p>
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E21. Common Name:	E22. ITU Name:
E23. Orbit Location:	E24. Country:

Satellite Name:OTHER   OTHER   If you selected OTHER, please enter the following:	
E21. Common Name: Intelsat 705	E22. ITU Name:
E23. Orbit Location: 50 W.L.	E24. Country: USA

Satellite Name:AMC 23   AMC 23   172 E.L. If you selected OTHER, please enter the following:	
E21. Common Name:	E22. ITU Name:
E23. Orbit Location:	E24. Country:

Satellite Name:ASIASAT 3S   AsiaSat 3S   105.5 E.L. If you selected OTHER, please enter the following:	
E21. Common Name:	E22. ITU Name:
E23. Orbit Location:	E24. Country:

Satellite Name:YAMAL-200   YAMAL-200   90 E.L. If you selected OTHER, please enter the following:	
E21. Common Name:	E22. ITU Name:
E23. Orbit Location:	E24. Country:

Satellite Name:ESTRELA DO SUL 1   BSAT-1   63 W.L. If you selected OTHER, please enter the following:	
E21. Common Name:	E22. ITU Name:
E23. Orbit Location:	E24. Country:

Satellite Name:OTHER   OTHER   If you selected OTHER, please enter the following:	
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E21. Common Name: Intelsat 706	E22. ITU Name:
E23. Orbit Location: 50.25 E.L.	E24. Country: USA

Satellite Name:OTHER   OTHER   If you selected OTHER, please enter the following:	
E21. Common Name: Intelsat 907	E22. ITU Name:
E23. Orbit Location: 27.5 W.L.	E24. Country: USA

Satellite Name:AMC-6   AMC-6   72 W.L. If you selected OTHER, please enter the following:	
E21. Common Name:	E22. ITU Name:
E23. Orbit Location:	E24. Country:

Satellite Name:SUPERBIRD C   JBIRDC   144 E.L. If you selected OTHER, please enter the following:	
E21. Common Name:	E22. ITU Name:
E23. Orbit Location:	E24. Country:

**POINTS OF COMMUNICATION (Destination Points)**

E25. Site Identifier:	
E26. Common Name:	E27. Country:

**ANTENNA**

Site ID	E28. Antenna Id	E29. Quantity	E30. Manufacturer	E31. Model	E32. Antenna Size<meters>	E41/42. Antenna GainTransmint and/or Recieve (___ dBi at ___ GHz)
N/A Mobile	CBBM	1000	Melco	RN211709	1.0	39.9 dBi at 12
						41.5 dBi at 14

<b>E28. Antenna Id</b>	<b>E33/34. Diameter Minor/Major (meters)</b>	<b>E35. Above Ground Level&lt;BR&gt; (meters)</b>	<b>E36. Above Sea Level&lt;BR&gt; (meters)</b>	<b>E37. Building Height Above Ground Level&lt;BR&gt; (meters)</b>	<b>E38. Total Input Power at antenna flange&lt;BR&gt; (Watts)</b>	<b>E39. Maximum Antenna Height Above Rooftop&lt;BR&gt; (meters)</b>	<b>E40. Total EIRP for all carriers&lt;BR&gt; (dBW)</b>
CBBM	1.0/1.0	0.0	0.0	0.0	4.7	0.0	48.2

**FREQUENCY**

<b>E28. Antenna Id</b>	<b>E43/44. Frequency Bands (MHz)</b>	<b>E45. T/R Mode</b>	<b>E46. Antenna Polarization(H,V, L,R)</b>	<b>E47. Emission Designator</b>	<b>E48. Maximum EIRP per Carrier (dBW)</b>	<b>E49. Maximum EIRP Density per Carrier (dBW/4kHz)</b>
CBBM	11200 12750	R	Horizontal and Vertical	32M4G7W	0.0	0.0

E50. Modulation and Services (If the complete description does not appear in this box, please go to the end of the form to view it in its entirety.)

O-QPSK, Data, advanced two-way broadband ESV services.

CBBM	11200 12750	R	Horizontal and Vertical	6M75G7W	0.0	0.0
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E50. Modulation and Services (If the complete description does not appear in this box, please go to the end of the form to view it in its entirety.)

O-QPSK, Data, advanced two-way broadband ESV services.

CBBM	14000 14500	T	Horizontal and Vertical	32M4G7W	48.2	15.9
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E50. Modulation and Services (If the complete description does not appear in this box, please go to the end of the form to view it in its entirety.)

O-QPSK, Data, advanced two-way broadband ESV services.

CBBM	14000 14500	T	Horizontal and Vertical	6M75G7W	48.2	9.1
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E50. Modulation and Services (If the complete description does not appear in this box, please go to the end of the form to view it in its entirety.)

O-QPSK, Data, advanced two-way broadband ESV services.

FREQUENCY COORDINATION



<b>E28. Antenna Id</b>	<b>E51. Satellite Orbit Type</b>	<b>E52/53. Frequency Limits(MHz)</b>	<b>E54/55. Range of Satellite Arc E/W Limit</b>	<b>E56. Earth Station Azimuth Angle Eastern Limit</b>	<b>E57. Antenna Elevation Angle Eastern Limit</b>	<b>E58. Earth Station Azimuth Angle Western Limit</b>	<b>E59. Antenna Elevation Angle Western Limit</b>	<b>E60. Maximum EIRP Density toward the Horizon (dBW/4kHz)</b>
CBBM	Geostationary	11450 11700	27.5/ 27.5	0.0	5.0	0.0	5.0	0.0
	Geostationary	11450 11700	50.0/ 50.0	0.0	5.0	0.0	5.0	0.0
	Geostationary	11450 11700	63.0/ 63.0	0.0	5.0	0.0	5.0	0.0
	Geostationary	11450 11700	90.0/ 90.0	0.0	5.0	0.0	5.0	0.0
	Geostationary	11500 11700	72.0/ 72.0	0.0	5.0	0.0	5.0	0.0
	Geostationary	12250 12750	105.5/ 105.5	0.0	5.0	0.0	5.0	0.0
	Geostationary	12450 12650	144.0/ 144.0	0.0	5.0	0.0	5.0	0.0
	Geostationary	14000 14500	27.5/ 27.5	0.0	5.0	0.0	5.0	-13.0
	Geostationary	14000 14500	36.0/ 36.0	0.0	5.0	0.0	5.0	-13.0
	Geostationary	14000 14500	50.0/ 50.0	0.0	5.0	0.0	5.0	-13.0
	Geostationary	14000 14500	50.25/ 50.25	0.0	5.0	0.0	5.0	-13.0

	Geostationary	14000 14500	63.0/ 63.0	0.0	5.0	0.0	5.0	-13.0
	Geostationary	14000 14500	72.0/ 72.0	0.0	5.0	0.0	5.0	-13.0
	Geostationary	14000 14500	90.0/ 90.0	0.0	5.0	0.0	5.0	-13.0
	Geostationary	14000 14500	105.5/ 105.5	0.0	5.0	0.0	5.0	-13.0
	Geostationary	14000 14500	144.0/ 144.0	0.0	5.0	0.0	5.0	-13.0
	Geostationary	14000 14500	172.0/ 172.0	0.0	5.0	0.0	5.0	-13.0
	Geostationary	11450–11700 12200–12750	172.0/ 172.0	0.0	5.0	0.0	5.0	0.0
	Geostationary	11450–11700 12500–12750	36.0/ 36.0	0.0	5.0	0.0	5.0	0.0
	Geostationary	11450–11700 12500–12750	50.25/ 50.25	0.0	5.0	0.0	5.0	0.0

**REMOTE CONTROL POINT LOCATION**

<p>E61. Call Sign</p> <p>NOTE: Please enter the callsign of the controlling station, not the callsign for which this application is being filed.</p>	<p>E65. Phone Number 253-773-0609</p>
<p>E62. Street Address Building 18-03 Rom 21C6 20403 68th Avenue S.</p>	

E63. City Kent	E67. County King	E64/68. State/Country / USA	E66. Zip Code 98203
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