Date & Time Filed: Mar 1 2004 3:13:15:283PM File Number: SES-MOD-INTR2004-00467

FCC APPLICATION FOR SPACE AND EARTH STATION:MOD OR AMD – MAIN FORM	FCC Use Only
FCC 312 MAIN FORM FOR OFFICIAL USE ONLY	

### APPLICANT INFORMATION

Enter a description of this application to identify it on the main menu: Application for Operations Outside the U.S.

8. Legal Name of A	pplicant		
Name:	The Boeing Company	Phone Number:	206-655-5399
DBA Name:		Fax Number:	206-655-5296
Street:	P.O. Box 3707	E-Mail:	craig.holman@boeing.com
	MC 14-07		
City:	Seattle	State:	WA
Country:	USA	Zipcode:	98124 -2207
Attention	: Mr Craig Holman		
Auenuon	wir Craig Holman		

9–16. Name of Contact Representative (If other than applicant)

Name: Philip L. Malet Phone Number: 202–429–6239

Company: Steptoe & Johnson LLP Fax Number: 202–429–3902

Street: 1330 Connecticut Ave., N.W. E–Mail: pmalet@steptoe.com

City: Washington State: DC

Country: USA Zipcode: 20036–

Contact Relationship: Legal Counsel

Title:

#### **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.

- a1. Earth Station
- a2. Space Station

(N/A) b1. Application for License of New Station

(N/A) 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
- b5. Assignment of License or Registration
- 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

(N/A) b10. Other (Please specify)

17c. Is a fee submitted with this application?  If Yes, complete and attach FCC Form 159. If No, indicate reason for fee exemption (see 47 C.F.R.Section 1.1114).  Governmental Entity Noncommercial educational licensee  Other(please explain):						
17d.						
Fee Classification A CGB – Mobile Satellite Earth Stations						
18. If this filing is in reference to an existing station, enter:	19. If this filing is an amendment to a pendin modification please enter only the file number	g application enter both fields, if this filing is a or:				
(a) Call sign of station:	(a) Date pending application was filed:	(b) File number:				
E000723		SESMOD2003051200639				

### TYPE OF SERVICE

20. NATURE OF SERVICE: This filing is for an authorization to provide or use the following type(s) of service(s): Select all that apply:
a. Fixed Satellite
b. Mobile Satellite
c. Radiodetermination Satellite
d. Earth Exploration Satellite
e. Direct to Home Fixed Satellite
f. Digital Audio Radio Service
g. Other (please specify)
21. STATUS: Choose the button next to the applicable status. Choose
only one. Using U.S. licensed satellites
Common Carrier Wing Non-U.S. licensed satellites
23. If applicant is providing INTERNATIONAL COMMON CARRIER service, see instructions regarding Sec. 214 filings. Choose one. Are these facilities:
Connected to a Public Switched Network  Not connected to a Public Switched Network  NA
24. FREQUENCY BAND(S): Place an 'X' in the box(es) next to all applicable frequency band(s).
a. C–Band (4/6 GHz) b. Ku–Band (12/14 GHz)
c.Other (Please specify upper and lower frequencies in MHz.)
Frequency Lower: Frequency Upper: (Please specify additional frequencies in an attachment)

### TYPE OF STATION

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

### PURPOSE OF MODIFICATION

27. The purpose of this proposed modification is to: (Place an 'X' in the box(es) next to all that apply.)
a — authorization to add new emission designator and related service
b — authorization to change emission designator and related service
c — authorization to increase EIRP and EIRP density
d — authorization to replace antenna
e — authorization to add antenna
f — authorization to relocate fixed station
g — authorization to change frequency(ies)
h — authorization to add frequency
i — authorization to add Points of Communication (satellites & Double
j — authorization to change Points of Communication (satellites & Double of Communication)
k — authorization for facilities for which environmental assessment and
radiation hazard reporting is required
1 — authorization to change orbit location
m — authorization to perform fleet management
n — authorization to extend milestones
o — Other (Please specify)

#### **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.	O Yes ⊚ No	
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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?	٥	Yes	•	No	0	N/A
30. Is the applicant an alien or the representative of an alien?	0	Yes	•	No	0	N/A
31. Is the applicant a corporation organized under the laws of any foreign government?	0	Yes	•	No	0	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?	0	Yes	•	No	0	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?	O Yes	` ●	No <sub>1</sub>	O 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	٥	. No
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 explination of circumstances.	0	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 explination of circumstances.	Yes Q37_Att	O No
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	O 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 exhinit, an explanation of the circumstances.	• Yes	<b>⊘</b> 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	O 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  Disco II	O No
42b. What administration has licensed or is in the process of licensing the space station? If no license will be issued coordinated or is in the process of coordinating the space station? Brazil (Estrela do Sul); Canada (Anik E2)	, what administr	ation has

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.)

Application to Modify Blanket License for Connexion by Boeing system in order to allow for aircraft earth stations to operate outside the United States with additional points of communications, frequencies and emissions designators.

Narrative

#### **CERTIFICATION**

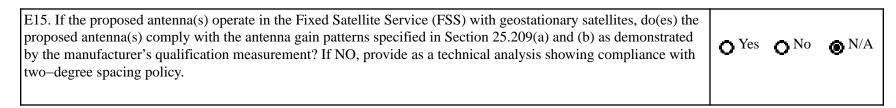
The Applicant waives any claim to the use of any particular frequency or of the electromagnetic spectrum as against the regulatory power of the United States because of the previous use of the same, whether by license or otherwise, and requests an authorization in accordance with this application. The 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.

true, complete and correct to the best of his or he	r knowledge and belief,	, and are made in good fa	aith.	
44. Applicant is a (an): (Choose the button next to	o applicable response.)			
<ul> <li>Individual</li> <li>Unincorporated Association</li> <li>Partnership</li> <li>Corporation</li> <li>Governmental Entity</li> <li>Other (please specify)</li> </ul>				
45. Name of Person Signing Scott E. Carson		46. Title of Person Sign Vice President	ning	
47. Please supply any need attachments.  Attachment 1:	Attachment 2:		Attachment 3:	

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 State E1: Site Identifier:		E5. Call Sign:	E000722	
		E5. Call Sign:	E000722	
	D Craia Holman		E000723	
E2: Contact Name	K. Claig Hollilali	E6. Phone Number:	(206) 655–5399	
	AESs Aboard Aircraft	E7. City:		
	Operating Outside US	E8. County:		
E4. State		E9. Zip Code		
E10. Area of Operati	ion:	Worldwide		
E11. Latitude:	0 °0 '0.0 "			
E12. Longitude:	0 °0 '0.0"			
E13. Lat/Lon Coordi	inates are:	O NAD-27	O NAD-83	● N/A
E14. Site Elevation (	(AMSL):	0.0 meters		



E16. If the proposed antenna(s) do not operate in the Fixed Satellite Ser Satellite Service (FSS) with non–geostationary satellites, do(es) the progain patterns specified in Section 25.209(a2) and (b) as demonstrated by measurements?	posed antenna(s) comply with the antenna	<b>O</b> Yes	<b>⊚</b> No	O N/A
E17. Is the facility operated by remote control? If YES, provide the loca point.	tion and telephone number of the control	Yes	٥	No
E18. Is frequency coordination required? If YES, attach a frequency coordination	ordination report as	O Yes	•	No
E19. Is coordination with another country required? If YES, attach the n coordination contours as	name of the country(ies) and plot of	O Yes	•	No
E20. FAA Notification – (See 47 CFR Part 17 and 47 CFR part 25.1 have you attached a copy of a completed FCC Form 854 and/or the FAA the structure to aviation?  FAILURE TO COMPLY WITH 47 CFR PARTS 17 AND 25 WILL I APPLICATION.	a's study regarding the potential hazard of	O Yes	•	No
POINTS OF COMMUNICATION				
Satellite Name: OTHER If you selected OTHER, please enter the	following:			
E21. Common Name: AMC-6	E22. ITU Name:			
E23. Orbit Location: 72 W.L.	E24. Country: Canada			
Satellite Name: OTHER If you selected OTHER, please enter the	following:			

E21. Common Name: Estrela do Sol	E22. ITU Name:					
E23. Orbit Location: 63 W.L.	E24. Country: Brazil					
Satellite Name: 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: OTHER If you selected OTHER, please enter the	following:					
E21. Common Name: Superbird-C	E22. ITU Name:					
E23. Orbit Location: 144 E.L.	E24. Country: Japan					
Satellite Name: OTHER If you selected OTHER, please enter the	following:					
E21. Common Name: SESAT	E22. ITU Name:					
E23. Orbit Location: 36 E.L.	E24. Country: France					
Satellite Name: OTHER If you selected OTHER, please enter the	following:					
E21. Common Name: Anik E2	E22. ITU Name:					
E23. Orbit Location: 118.7 W.L.	E24. Country: Canada					
Satellite Name: OTHER If you selected OTHER, please enter the following:						
E21. Common Name: Yamal-200	E22. ITU Name:					
E23. Orbit Location: 90 E.L.	E24. Country: Russia					
Satellite Name: OTHER If you selected OTHER, please enter the	following:					

E21. Common Name: AsiaSat 3S	E22. ITU Name:
E23. Orbit Location: 105.5 E.L	E24. Country: China

# POINTS OF COMMUNICATION (Destination Points)

E25. Site Identifier: 2	
E26. Common Name: Estrela do Sol	E27. Country:

E25. Site Identifier: 2	
E26. Common Name: Intelsat 907	E27. Country:

# ANTENNA

Site ID	E28. Antenna Id	E29. Quantity	E30. Manufacturer	E31. Model		E41/42. Antenna Gain Transmint and/or Recieve (dBi atGHz)
2	ATR-1B	675	Boeing	Reflector	0.0	0.0 dBi at
	ATR-1A	125		Phased Array	0.371	0.0 dBi at

E28. Antenna Id	Diameter		` ′	Height Above Ground Level	Input Power at	E39. Maximum Antenna Height Above Rooftop (meters)	EIRP for al
ATR-1B	0.196/0.65	0.0	0.0	0.0	0.0	0.0	0.0
ATR-1A	0.0/0.0	0.0	0.0	0.0	0.0	0.0	0.0

FREQUENCY

E28. Antenna Id	E43/44. Frequency Bands (MHz)	E45. T/R Mode	E46. Antenna Polarization(H,V, L,R)	E47. Emission Designator	E48. Maximum EIRP per Carrier (dBW)	E49. Maximum ERIP Density per Carrier (dBW/4kHz)
ATR-1B	11450 12200	R	Horizontal and Vertical	12M4G7D	0.0	0.0
E50. Modulation entirety.)	TA, advanced tw			tinis box, piease go	to the end of the form	to view it in its
ATR-1B	12250 12750	R	Horizontal and Vertical	12M4G7D	0.0	0.0
E50. Modulation entirety.)  OQPSK, DAT	n and Services (If the TA, advanced two			this box, please go	to the end of the form	to view it in its
ATR-1B	14000 14500	Т	Horizontal and Vertical	6M75G7D	46.7	14.4

E50. Modula entirety.)	tion and Services	(If the complete de	escription does not appear	in this box, please	go to the end of t	the form to view it in its
OQPSK, 1	DATA, advanced	two-way bro	adband AMSS			
ATR-1A	11450 12200	R	Horizontal and Vertical	12M4G7D	0.0	0.0
E50. Modula entirety.)	tion and Services	(If the complete de	escription does not appear	in this box, please	go to the end of t	the form to view it in its
ATR-1A	DATA, advanced	R	Horizontal and	12M4G7D	0.0	0.0
	12750		Vertical			
E50. Modula entirety.)	tion and Services	(If the complete de	escription does not appear	in this box, please	go to the end of t	the form to view it in its
OQPSK, 1	DATA, advanced	two-way bro	adband AMSS			
ATR-1A	14000 14500	Т	Horizontal and Vertical	6M75G7D	51.2	18.9

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.)

OQPSK, DATA, advanced two-way broadband AMSS

### FREQUENCY COORDINATION

E28. Antenna Id	E51. Satellite Orbit Type	E52/53. Frequency Limits(MHz)	E54/55. Range of Satellite Arc Eastern/West ern Limit	E56. Earth Station Azimuth Angle Eastern Limit	E57. Antenna Elevation Angle Eastern Limit	E58. Earth Station Azimuth Angle Western Limit	E59. Antenna Elevation Angle Western Limit	E60. Maximum EIRP Density toward the Horizon (dBW/4kHz)
ATR-1B	Geostationary	11450 11700	27.5/27.5	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	11450 12200	36.0/36.0	0.0	5.0	0.0	5.0	0.0
	Geostationary	11450 12200	63.0/63.0	0.0	5.0	0.0	5.0	0.0
	Geostationary	11700 12200	72.0/72.0	0.0	5.0	0.0	5.0	0.0
	Geostationary	11700 12200	118.7/118.7	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	12250 12750	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	-0.1
	Geostationary	14000 14500	36.0/36.0	0.0	5.0	0.0	5.0	-0.1
	Geostationary	14000 14500	63.0/63.0	0.0	5.0	0.0	5.0	-0.1
	Geostationary	14000 14500	72.0/72.0	0.0	5.0	0.0	5.0	-0.1
	Geostationary	14000 14500	90.0/90.0	0.0	5.0	0.0	5.0	-0.1
	Geostationary	14000 14500	105.5/105.5	0.0	5.0	0.0	5.0	-0.1
	Geostationary	14000 14500	118.7/118.7	0.0	5.0	0.0	5.0	-0.1
	Geostationary	14000 14500	144.0/144.0	0.0	5.0	0.0	5.0	-0.1
ATR-1A	Geostationary	11450 11700	27.5/27.5	0.0	27.0	0.0	27.0	0.0
	Geostationary	11450 11700	90.0/90.0	0.0	27.0	0.0	27.0	0.0
	Geostationary	11450 12200	36.0/36.0	0.0	27.0	0.0	27.0	0.0
	Geostationary	11450 12200	63.0/63.0	0.0	27.0	0.0	27.0	0.0
	Geostationary	11700 12200	72.0/72.0	0.0	27.0	0.0	27.0	0.0

Geostationary	11700 12200	118.7/118.7	0.0	27.0	0.0	27.0	0.0
Geostationary	12250 12750	105.5/105.5	0.0	27.0	0.0	27.0	0.0
Geostationary	12250 12750	144.0/144.0	0.0	27.0	0.0	27.0	0.0
Geostationary	14000 14500	27.5/27.5	0.0	27.0	0.0	27.0	-21.0
Geostationary	14000 14500	36.0/36.0	0.0	27.0	0.0	27.0	-21.0
Geostationary	14000 14500	63.0/63.0	0.0	27.0	0.0	27.0	-21.0
Geostationary	14000 14500	72.0/72.0	0.0	27.0	0.0	27.0	-21.0
Geostationary	14000 14500	105.5/105.5	0.0	27.0	0.0	27.0	-21.0
Geostationary	14000 14500	118.7/118.7	0.0	27.0	0.0	27.0	-21.0
Geostationary	14000 14500	144.0/144.0	0.0	27.0	0.0	27.0	-21.0
Non- Geostationary	14000 14500	90.0/90.0	0.0	27.0	0.0	27.0	-21.0

# REMOTE CONTROL POINT LOCATION

E61. Call Sign E000723	E66. Phone Number 253–773–0609
NOTE: Please enter the callsign of the controlling station, not the callsign for which this application is being filed.	

E62. Street Address Bldg. 18–03, RM 21C6 20403 68th Ave.			
E63. City King	E68. County S. Kent	E67/68. State/Country WA/ USA	E64. Zip Code 98188

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