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APPLICATION FOR EARTH STATION AUTHORIZATIONS	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: Prodelin 1244

1 Todelin	1211			
1–8. Leg	al Name of Ap	plicant		
	Name:	The Boeing Company	Phone Number:	866-248-1493
	DBA Name:		Fax Number:	206-544-6592
	Street:	Attn	E–Mail:	bob.douglass@boeing.com
		PO Box 3707		
	City:	Seattle	State:	WA
	Country:	USA	Zipcode:	98124 -2207
	Attention:	Mr Robert B Douglass		

Name:	Ron Center	Phone Number:	206-544-6583
Company:	The Boeing Company	Fax Number:	206-544-6592
Street:	P.O. Box 3707	E-Mail:	ronald.e.center@boeing.com
City:	Seattle	State:	WA
Country:	USA	Zipcode:	98124-2207
Attention:	Freq Mgt Svcs M/C	Relationship:	Same

CLASSIFICATION OF FILING

17. Choose the button next to the	b.
classification that applies to this filing for	b1. Application for License of New Station
both questions a. and b. Choose only one for 17a and only one for 17b.	 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
a. al. Earth Station (N/A) a2. Space Station	 (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. b12. Application for Database Entry
	(N/A) b13. Amendment to a Pending Database Entry Application (N/A) b14. Modifiction of Database Entry
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).
O Governmental Entity O Noncomme	rcial educational licensee
• Other(please explain):	
17d.	
Fee Classification BAX – Fixed Satellite T Station	ransmit/Receive Earth

18. If this filing is in reference to an	19. If this filing is an amendment to a pending ap	oplication enter:
existing station, enter:	(a) Date pending application was filed:	(b) File number of pending application:
(a) Call sign of station:		
Not Applicable	Not Applicable	Not Applicable

TYPE OF SERVICE

20. NATURE OF SERVICE: This filing is for an authorization to provide	e 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	22. If earth station applicant, check all that apply.
only one.	Using U.S. licensed satellites
	Using Non–U.S. licensed satellites
23. If applicant is providing INTERNATIONAL COMMON CARRIER s facilities:	ervice, see instructions regarding Sec. 214 filings. Choose one. Are these
• Connected to a Public Switched Network • Not connected	to a Public Switched Network ON/A

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:

TYPE OF STATION

• a. Fixed Earth Station		
b. Temporary–Fixed Ea	rth Station	
c. 12/14 GHz VSAT Ne	twork	
d. Mobile Earth Station		
N/A) e. Geostationary Space	ce Station	
N/A) f. Non–Geostationary	•	
g. Other (please specify	r)	
PE OF EARTH STATION	FACILITY: Choose only one	

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	O Yes	● ^{No}
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	RADHAZ	
modifications, or major amendments.		

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?	O Yes ● No
30. Is the applicant an alien or the representative of an alien?	O Yes ● No O N/A
31. Is the applicant a corporation organized under the laws of any foreign government?	O Yes ⊚ No O 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?	O Yes ● No O 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?

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.	O Yes	● 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.	O Yes	No No ■

• Yes • No • N/A

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	O No
	Felony	
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	
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.	O 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.

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.



O No

Yes

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?

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.)

This is an application for licensing of a 2.4M Prodelin, model 1244. The terminal will be used in a temporary fixed configuration to support emergent communications at locations throughout the Continental United States, Alaska and Hawaii.

43a. Geographic Service Rule Certification By selecting A, the undersigned certifies that the applicant is not subject to the geographic service or geographic coverage requirements specified in 47 C.F.R. Part 25.	O A
By selecting B, the undersigned certifies that the applicant is subject to the geographic service or geographic coverage requirements specified in 47 C.F.R. Part 25 and will comply with such requirements.	● ^B
By selecting C, the undersigned certifies that the applicant is subject to the geographic service or geographic coverage requirements specified in 47 C.F.R. Part 25 and will not comply with such requirements because it is not feasible as a technical matter to do so, or that, while technically feasible, such services would require so many compromises in satellite design and operation as to make it economically unreasonable. A narrative description and technical analysis demonstrating this claim are attached.	O ^C

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 b	putton next to applicable respons	se.)		
O Individual				
• Unincorporated Association				
• Partnership				
• Corporation				
Governmental Entity				
Other (please specify)				
`				
45. Name of Person Signing		46. Title of Person	Signing	
Robert B Douglass		Manager, Spectrum	m Management	
47. Please supply any need attachme	nts.			
Attachment 1:	Attachment 2:		Attachment 3:	
L]
WILLFUL FALSE STAT	EMENTS MADE ON THIS FO	RM ARE PUNISHAB	LE BY FINE AND / OR IMPRISON	NMENT
-			NY STATION AUTHORIZATION	
(U.S. Code, Tit	le 47, Section 312(a)(1)), AND/0	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 St	tation Site					
E1: Site Identifier:	Prodelin 1244	E5. Call Sign:				
E2: Contact Name	Thomas F. Fisher	E6. Phone Number:	206-662-2573			
E3. Street:	7500 E Marginal Way S	E7. City:	Seattle			
		E8. County:	King			
E4. State	WA	E9. Zip Code	98108			
E10. Area of Opera	tion:	CONUS, AK, HI				
E11. Latitude:	0 °0 '0.0 "					
E12. Longitude:	0 °0 '0.0 "					
E13. Lat/Lon Coord	linates are:	O NAD−27	O NAD-83	() N/A		
E14. Site Elevation	(AMSL):	0.0 meters				

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 a technical analysis showing compliance with two–degree spacing policy.	• Yes	● ^{No}	O ^{N/A}
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?	O Yes	O ^{No}	● ^{N/A}
E17. Is the facility operated by remote control? If YES, provide the location and telephone number of the control point.	O Yes	۲	No

E18. Is frequency coordination required? If YES, attach a frequency coordination report as	0	Yes	•	No
E19. Is coordination with another country required? If YES, attach the name of the country(ies) and plot of coordination contours as	0	Yes	۲	No
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? FAILURE TO COMPLY WITH 47 CFR PARTS 17 AND 25 WILL RESULT IN THE RETURN OF THIS APPLICATION.	0	Yes	۲	No

POINTS OF COMMUNICATION

Satellite Name: PERMITTED LIST | PERMITTED LIST | If years

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: Prodelin 1244	
E26. Common Name:	E27. Country:USA

ANTENNA

Site ID	E28. Antenna Id	E29. Quantity	E30. Manufacturer	E31. Model	E32. Antenna Size <meters></meters>	E41/42. Antenna GainTransmint and/or Recieve (dBi at GHz)
Prodelin 1244	Prod 2.4M	1	Prodelin	1244	2.4	47.6 dBi at 11.950
						49.2 dBi at 14.250

Id	E33/34. Diameter Minor/Major (meters)		(meters)	0	Input Power at antenna flange 	Maximum Antenna Height	E40. Total EIRP for al carriers (dBW)
Prod 2.4M	2.4/2.4	4.0	0.0	0.0	35.0	0.0	64.64

FREQUENCY

E28. Antenna Id	E43/44. Frequency Bands	E45. T/R Mode			E48. Maximum EIRP per Carrier	E49. Maximum
	(MHz)		L,R)	Designator	-	Carrier
						(dBW/4kHz)

Prod 2.4M	11700 12200	R	Linear and Circular	10M0G7W	0.0	0.0
E50. Modulation entirety.)	and Services (If t	he complete desc	cription does not appear in	this box, please	go to the end of t	the form to view it in its
Digital Da	ta Carrier					
Prod 2.4M	11700 12200	R	Linear and Circular	128KG7W	0.0	0.0
E50. Modulation entirety.) Digital Da	ta Carrier		cription does not appear in	unis box, picase		
Prod 2.4M	11700 12200	R	Linear and Circular	15M0G7W	0.0	0.0
E50. Modulation entirety.)	and Services (If t	he complete desc	cription does not appear in	this box, please	go to the end of t	he form to view it in its
Digital Da	ta Carrier					

Prod 2.4M	11700 12200	R	Linear and Circular	1M00G7W	0.0	0.0
E50. Modulation entirety.)	and Services (If t	the complete des	scription does not appear in	this box, please	go to the end of t	the form to view it in its
Digital Da	ta Carrier					
Prod 2.4M	11700 12200	R	Linear and Circular	1M50G7W	0.0	0.0
entirety.) Digital Da	ta Carrier					
Prod 2.4M	11700 12200	R	Linear and Circular	20M0G7W	0.0	0.0
E50. Modulation entirety.)	and Services (If t	the complete des	scription does not appear in	this box, please	go to the end of t	the form to view it in its
Digital Da	ta Carrier					

Prod 2.4M	11700 12200	R	Linear and Circular	256KG7W	0.0	0.0
E50. Modulation entirety.)	and Services (If t	the complete desc	cription does not appear in	this box, please	go to the end of t	he form to view it in its
Digital Da	ta Carrier					
Prod 2.4M	11700 12200	R	Linear and Circular	25M0G7W	0.0	0.0
E50. Modulation entirety.) Digital Da	ta Carrier		cription does not appear in	uns box, picase		
Prod 2.4M	11700 12200	R	Linear and Circular	2M00G7W	0.0	0.0
E50. Modulation entirety.)	and Services (If t	the complete desc	cription does not appear in	this box, please	go to the end of t	he form to view it in its
Digital Da	ta Carrier					

Prod 2.4M	11700 12200	R	Linear and Circular	30M0G7W	0.0	0.0
E50. Modulation entirety.)	and Services (If t	he complete descrip	tion does not appear in	this box, please	go to the end of the	he form to view it in its
Digital Da	ta Carrier					
Prod 2.4M	11700 12200	R	Linear and Circular	3M00G7W	0.0	0.0
E50. Modulation entirety.) Digital Da	Ň					he form to view it in its
Prod 2.4M	11700 12200	R	Linear and Circular	4M00G7W	0.0	0.0
E50. Modulation entirety.)	and Services (If t	he complete descrip	tion does not appear in	this box, please	go to the end of the	he form to view it in its
Digital Da	ta Carrier					

Prod 2.4M	11700 12200	R	Linear and Circular	512KG7W	0.0	0.0
E50. Modulation entirety.)	and Services (If t	the complete des	scription does not appear in	this box, please	go to the end of t	the form to view it in its
Digital Da	ta Carrier					
Prod 2.4M	11700 12200	R	Linear and Circular	5M00G7W	0.0	0.0
entirety.) Digital Da	ta Carrier		scription does not appear in			
Prod 2.4M	11700 12200	R	Linear and Circular	6M00G7W	0.0	0.0
E50. Modulation entirety.)	and Services (If t	the complete des	scription does not appear in	this box, please	go to the end of t	the form to view it in its
Digital Da	ta Carrier					

Prod 2.4M	11700 12200	R	Linear and Circular	768KG7W	0.0	0.0
E50. Modulation entirety.)	and Services (If t	he complete des	scription does not appear in	this box, please	go to the end of th	ne form to view it in its
Digital Da	ta Carrier					
Prod 2.4M	11700 12200	R	Linear and Circular	8M00G7W	0.0	0.0
entirety.) Digital Da	ta Carrier					
Prod 2.4M	14000 14500	Т	Linear and Circular	10M0G7W	64.64	30.66
E50. Modulation entirety.)	and Services (If t	he complete des	scription does not appear in	this box, please	go to the end of th	ne form to view it in its
Digital Da	ta Carrier					

Prod 2.4M	14000 14500	Т	Linear and Circular	128KG7W	50.2	35.15
E50. Modulation entirety.)	and Services (If t	the complete de	escription does not appear in	this box, please	go to the end of th	ne form to view it in its
Digital Da	ta Carrier					
Prod 2.4M	14000 14500	Т	Linear and Circular	15M0G7W	64.64	28.9
Digital Da	ta Carrier					
Prod 2.4M	14000 14500	Т	Linear and Circular	1M00G7W	58.2	34.22
E50. Modulation entirety.)	and Services (If t	the complete de	escription does not appear in	this box, please	go to the end of th	ne form to view it in its
Digital Da	ta Carrier					

Prod 2.4M	14000 14500	Т	Linear and Circular	1M50G7W	60.7	34.96
E50. Modulation entirety.)	and Services (If	the complete de	escription does not appear in	this box, please	go to the end of th	ne form to view it in its
Digital Da	ta Carrier					
Prod 2.4M	14000 14500	Т	Linear and Circular	20M0G7W	64.64	27.65
entirety.) Digital Da	ta Carrier					
Prod 2.4M	14000 14500	Т	Linear and Circular	256KG7W	53.2	35.14
E50. Modulation entirety.)	and Services (If	the complete de	escription does not appear in	this box, please	go to the end of th	ne form to view it in its
Digital Da	ta Carrier					

Prod 2.4M	14000 14500	Т	Linear and Circular	25M0G7W	64.64	26.68
E50. Modulation entirety.)	and Services (If t	he complete desci	ription does not appear in	this box, please	go to the end of th	e form to view it in its
Digital Da	ta Carrier					
Prod 2.4M	14000 14500	Т	Linear and Circular	2M00G7W	61.24	34.25
entirety.) Digital Da	ta Carrier					
Prod 2.4M	14000 14500	Т	Linear and Circular	30M0G7W	64.64	25.89
E50. Modulation entirety.)	and Services (If t	he complete descr	ription does not appear in	this box, please	go to the end of th	e form to view it in its
Digital Da	ta Carrier					

Prod 2.4M	14000 14500	Т	Linear and Circular	3M00G7W	63.18	34.43
E50. Modulation entirety.)	and Services (If	the complete de	escription does not appear in	this box, please	go to the end of th	e form to view it in its
Digital Da	ta Carrier					
Prod 2.4M	14000 14500	Т	Linear and Circular	4M00G7W	64.64	34.64
entirety.) Digital Da	ta Carrier					
Prod 2.4M	14000 14500	Т	Linear and Circular	512KG7W	56.2	35.13
E50. Modulation entirety.)	and Services (If	the complete de	escription does not appear in	this box, please	go to the end of th	e form to view it in its
Digital Da	ta Carrier					

Prod 2.4M	14000 14500	Т	Linear and Circular	5M00G7W	64.64	33.67
E50. Modulation entirety.)	and Services (If t	the complete de	escription does not appear in	this box, please	go to the end of th	e form to view it in its
Digital Da	ta Carrier					
Prod 2.4M	14000 14500	Т	Linear and Circular	6M00G7W	64.64	32.88
Digital Da	ta Carrier					
Prod 2.4M	14000 14500	Т	Linear and Circular	768KG7W	56.7	33.87
E50. Modulation entirety.)	and Services (If t	the complete de	escription does not appear in	this box, please	go to the end of th	e form to view it in its
Digital Da	ta Carrier					

Prod 2	2.4M	14000	Т	Linear and Circular	8M00G7W	64.64	31.63			
		14500								
E5	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									
entire	ty.)									
	Digital Da	ta Carrier								
L										

FREQUENCY COORDINATION

E28. Antenna Id	E51. Satellite Orbit Type	E52/53. Frequency Limits(MHz)	E54/55. Range of Satellite Arc E/W 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)
Prod 2.4M	Geostationary	11700 12200	10.0/ 180.0	0.0	5.0	0.0	5.0	0.0
	Geostationary	14000 14500	10.0/ 180.0	0.0	5.0	0.0	5.0	-2.52

REMOTE CONTROL POINT LOCATION

E61. Call Sign	E65. Phone Number
NOTE: Please enter the callsign of the controlling station, not the callsign for which this application is being filed.	
E62. Street Address	

E67. County	E64/68.	E66. Zip Code
	State/Country	
	/	
	E67. County	

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