Approved by OMB
3060−0678

Date & Time Filed: Dec 21 2014 9:07:55:140PM
File Number: SES−LIC−INTR2014−02480
Callsign/Satellite ID:

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

APPLICANT INFORMATION
Enter a description of this application to identify it on the main menu:
(Royal Caribbean) Application for a new Prodelin 1244 Ku−Band and new Prodelin 1244 C−band antennas

1−8. Legal Name of Applicant

Name:	Harris CapRock Communications, Inc.	**Phone Number:**	832−668−2753
DBA Name:		**Fax Number:**	832−668−2780
Street:	4400 S. Sam Houston Parkway Ea	**E−Mail:**	ellenann.sands@harris.com
City:	Houston	**State:**	TX
Country:	USA	**Zipcode:**	77048 −
Attention:	Ms EllenAnn Sands		

9−16. Name of Contact Representative

Name:	EllenAnn Sands	**Phone Number:**	832−668−2753
Company:	Harris Caprock	**Fax Number:**	832−668−2780
Street:	4400 S. Sam Houston Parkway Ea	**E−Mail:**	raul@rmtelecomlaw.com
City:	Houston	**State:**	TX
Country:	USA	**Zipcode:**	77048−
Attention:	EllenAnn Sands	**Relationship:**	Legal Counsel

E21. Common Name:	E22. ITU Name:
E23. Orbit Location:	E24. Country:

POINTS OF COMMUNICATION (Destination Points)

E25. Site Identifier: Prodelin 1244 Ku	
E26. Common Name:	E27. Country:USA

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)
Prodelin 1244 Ku	P1244 Ku	1	Prodelin	1244	2.4	47.6 dBi at 11.85
						49.26 dBi at 14.250

E28. Antenna Id	E33/34. Diameter Minor/Major (meters)	E35. Above Ground Level (meters)	E36. Above Sea Level (meters)	E37. Building Height Above Ground Level (meters)	E38. Total Input Power at antenna flange (Watts)	E39. Maximum Antenna Height Above Rooftop (meters)	E40. Total EIRP for al carriers (dBW)
P1244 Ku	0.0/0.0	13.5	22.5	16.15	55.0	3.0	66.6

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)

P1244 Ku	11700 12200	R	Horizontal and Vertical	5M28G7W	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.)

Digital

P1244 Ku	11700 12200	R	Horizontal and Vertical	660KG7W	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.)

Digital

P1244 Ku	14000 14500	T	Horizontal and Vertical	5M28G7W	58.39	27.2

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.)

Digital

P1244 Ku	14000 14500	T	Horizontal and Vertical	660KG7W	49.39	27.2

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.)

Digital

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)**
			/					

REMOTE CONTROL POINT LOCATION

E61. Call Sign NOTE: Please enter the callsign of the controlling station, not the callsign for which this application is being filed.		E65. Phone Number	
E62. Street Address			
E63. City	E67. County	E64/68. State/Country /	E66. Zip Code

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:	E5. Call Sign:
E2: Contact Name	E6. Phone Number:
E3. Street:	E7. City:
	E8. County:
E4. State	E9. Zip Code

E10. Area of Operation:

E11. Latitude: ° ’ "

E12. Longitude: ° ’ "

E13. Lat/Lon Coordinates are: ○ NAD−27 ○ NAD−83 ○ N/A

E14. Site Elevation (AMSL): 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 ○ 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?	○ Yes ○ No ○ N/A
E17. Is the facility operated by remote control? If YES, provide the location and telephone number of the control point.	○ Yes ○ No

E18. Is frequency coordination required? If YES, attach a frequency coordination report as	○ Yes ○ No
E19. Is coordination with another country required? If YES, attach the name of the country(ies) and plot of coordination contours as Exhibit A2	○ Yes ○ 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.	○ Yes ○ No

POINTS OF COMMUNICATION

Satellite Name: 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)
Prodelin 1244 C	P1244C	1	Prodelin	1244	2.4	0.0 dBi at

E28. Antenna Id	E33/34. Diameter Minor/Major (meters)	E35. Above Ground Level (meters)	E36. Above Sea Level (meters)	E37. Building Height Above Ground Level (meters)	E38. Total Input Power at antenna flange (Watts)	E39. Maximum Antenna Height Above Rooftop (meters)	E40. Total EIRP for al carriers (dBW)
P1244C	0.0/0.0	13.5	22.5	16.15	55.0	3.0	59.4

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)
P1244C	3700 4200	R	Left and Right Circular	170KG7W	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.)

Digital

P1244C	3700	4200	R	Left and Right Circular	1M20G7W	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.)

Digital

P1244C	5925	6045	T	Left and Right Circular	170KG7W	50.0	33.7

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.)

Digital

P1244C	5925	6045	T	Left and Right Circular	1M20G7W	58.48	33.7

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.)

Digital

P1244C	6085	6265	T	Left and Right Circular	170KG7W	50.0	33.7

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.)

Digital

P1244C	6085	6265	T	Left and Right Circular	1M20G7W	58.48	33.7

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.)

Digital

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)**
P1244C	Geostationary	3700 4200	33.0/ 35.0	111.99	30.01	113.41	31.81	0.0
	Geostationary	5925 6045	33.0/ 35.0	111.99	30.01	113.41	31.81	−18.28
	Geostationary	6085 6265	33.0/ 35.0	111.99	30.01	113.41	31.81	−18.28

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E62. Street Address			
E63. City	E67. County	E64/68. State/Country /	E66. Zip Code

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