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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:

Modification to add new C-band earth station

1-	-8. Legal Name of App	plicant		
	Name:	CapRock Communications, Inc.	Phone Number:	832-668-2751
	DBA Name:		Fax Number:	832–668–2780
	Street:	4400 S. Sam Houston Parkway Ea	E-Mail:	rmagallanes@cprk.com
	City:	Houston	State:	TX
	Country:	USA	Zipcode:	77048 –

Attention: Mr Raul Magallanes

9–16. Name of Contact Representative

Name: Raul Magallanes Phone Number: 832–668–2751

Company: CapRock Communications **Fax Number:** 832–668–2780

Street: 4400 S. Sam Houston Pkwy. **E–Mail:** rmagallanes@cprk.com

City: Houston State: TX

Country: USA Zipcode: 77048–

Attention: Raul Magallanes Relationship: 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.

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

b 3. Amendment to a Pending Application

b4. Modification of License or Registration

b5. Assignment of License or Registration

b6. Transfer of Control of License or Registration

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)

(N/A) 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

(N/A) b12. Application for Database Entry

b13. Amendment to a Pending Database Entry Application

b14. Modification 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). Governmental Entity Noncommercial educational licensee Other(please explain):					
17d. Fee Classification CGX – Fixed Satellite Transmit/Receive Earth Station					
18. If this filing is in reference to an existing station, enter:(a) Call sign of station: E030170	19. If this filing is an amendment to a pending a modification please enter only the file number: (a) Date pending application was filed:	application enter both fields, if this filing is a (b) File number: SESMOD2004071400996			

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
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 N/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: (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. 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 (satellites & Doub
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

under the laws of a foreign country?

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.	_		•			
ALIEN OWNERSHIP Earth station applicants not proposing to provide broadcast, common carrier, aerona aeronautical fixed radio station services are not required to respond to Items 30–34.	autic	al er	ı roı	ıte o	r	
29. Is the applicant a foreign government or the representative of any foreign government?	٥	Yes	•	, No)	
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	, 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	0	Yes	•	. No	· o	N/A

O Yes No

28. Would a Commission grant of any proposal in this application or amendment have a significant environmental

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 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.	O Yes	No
	Antenna Patte	erns
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

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	⊚ 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	• 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	⊘ 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 Exhibit 42a	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? On the Permitted list	, what administr	ration has
43. Description. (Summarize the nature of the application and the services to be provided). (If the complete describox, please go to the end of the form to view it in its entirety.) Modification to add new C-band earth station	ption does not a	ppear in this
Cover Letter		

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 Raul Magallanes >	46. Title of Person Signing Corporate Counsel

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: Seatel E030170 E5. Call Sign: E2: Contact Name Raul Magallanes E6. Phone 832-668-2300 Number: 4400 S. Sam E3. Street: E7. City: Houston Houston Pkwy. E. E8. County: Harris E4. State TXE9. Zip Code 77048 E10. Area of Operation: Houston E11. Latitude: 29 °35 '54.0 "N E12. Longitude: 95 °20 '50.0 "W E13. Lat/Lon Coordinates are: NAD-27 **⋒** NAD-83 N/A E14. Site Elevation (AMSL): 16.1 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.

E16. If the proposed antenna(s) do not operate in the Fixed Satellite Set Satellite Service (FSS) with non–geostationary satellites, do(es) the progain patterns specified in Section 25.209(a2) and (b) as demonstrated by measurements?	oposed antenna(s) comply with the antenna	o Yes	O No	⊚ N/A
E17. Is the facility operated by remote control? If YES, provide the loc point.	ation and telephone number of the control	• Yes	0	No
E18. Is frequency coordination required? If YES, attach a frequency co	ordination report as Exhibit E18		•	No
E19. Is coordination with another country required? If YES, attach the 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 25.113(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? Exhibit E20 FAILURE TO COMPLY WITH 47 CFR PARTS 17 AND 25 WILL RESULT IN THE RETURN OF THIS APPLICATION.		Yes	٥	No
POINTS OF COMMUNICATION		!		
Satellite Name: SATMEX-5 SATMEX-5 116.8 W.L. If you select	red OTHER, please enter the following:			
E21. Common Name:	E22. ITU Name:			
E23. Orbit Location:	E24. Country:			
Satellite Name: ALSAT ALL AUTHORIZED U.S. ALSAT If you	selected OTHER please enter the following:			

FREQUENCY E28. Antenna Id	E43/44. Frequency Ba		E45. T/R M	ode	E46. Ant		E47. I Design	Emission nator		. Maximum P per Carrier	E49. Maximum ERIP Density per
Seatel9797	0.0/0.0	1.8		17.8		0.0		2.9		1.8	46.32
E28. Antenna Id	E33/34. Diameter Minor/Major (meters)		Above and Level ers)		bove Sea meters)	E37. Building Height Above Ground Level (meters)		E38. Total Input Power at antenna flange (Watts)		E39. Maximum Antenna Heigi Above Roofton (meters)	ht EIRP for al
Seatel	Seatel9797	1	1			9797 2.4			41.7 dBi at 6		
Seatel	Seatel9797	1		Seatel		9797		2.4		38.5 dBi at 4	
Site ID	E28. Antenna Id	E29.	Quantity	E30. Manuf	facturer	E31. Mod	del	E32. Anten Size <meter< th=""><th></th><th>E41/42. Antenna Gain Transmint and/or Recieve (dBi atGHz)</th><th></th></meter<>		E41/42. Antenna Gain Transmint and/or Recieve (dBi atGHz)	
ANTENNA	ame.					L27. Cou	iii y .				
E25. Site Identifier: E26. Common Name:						E27. Cou	ntro				
	COMMUNICATI	ON (I	Destination	Points)		·					
E23. Orbit Location:					E24. Country:						
E21. Common Name:					E22. ITU Name:						

(dBW/4kHz)

Seatel9797	3700	4200	R	Horizontal and Vertical	1M43G7W	0.0	0.0
E50. Modulation entirety.)	and Services	(If th	ne complete description	on does not appear in	this box, please go to	o the end of the form	to view it in its
Digital							
Seatel9797	5925	6425	Т	Horizontal and Vertical	1M43G7W	46.326	20.78
E50. Modulation entirety.) Digital	and Services	(If th	ne complete description	on does not appear in	this box, please go to	o the end of the form	to view it in its

FREQUENCY COORDINATION

E28. Antenna Id	1	E52/53. Frequency Limits(MHz)	Range of Satellite Arc	Station Azimuth Angle		E58. Earth Station Azimuth Angle Western Limit	E59. Antenna Elevation Angle Western Limit	E60. Maximum EIRP Density toward the Horizon (dBW/4kHz)
Seatel9797	Geostationary	3700 4200	22.0/143.0	98.1	5.3	245.4	28.6	0.0

	Geostationary	5925 6425	22.0/143.0	98.1		5.3	245.4	28.6	-27.4	
REMOTE CONTROL POINT LOCATION										
E61. Call Sign E030170 NOTE: Please enter the callsign of the controlling station, not the callsign for which this application is being filed. E66. Phone Number 832–668–2300										
E62. Street Address 4400 S. Sam Houston Pkwy. E.										
E63. City Houston			E68. County Harris	,			E67/68. State/Country TX/ USA	7704	. Zip Code 48	

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