

APPLICATION FOR EARTH STATION SPECIAL TEMPORARY AUTHORITY

APPLICANT INFORMATION Enter a description of this application to identify it on the main menu:
STA to increase power to KerrMcGee Boomvang

I. Applicant

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:	esands@cprk.com
City:	Houston	State:	TX
Country:	USA	Zipcode:	77048 -
Attention:	Ms. EllenAnn Sands		



File # SES-STA-20071029-01472
Call Sign E050331 Grant Date 11/30/07
(or other identifier)
From 11/30/07 Term Dates 1/28/08
Appr. by Jeannette K. Griggs

2. Contact			
Name:	Raul Magallanes	Phone Number:	281 317 1397
Company:	The Law Office of Raul Magallanes, PLLC	Fax Number:	281 271 8085
Street:	PO Box 1213	E-Mail:	info@rmtelecomlaw.com
City:	Houston	State:	TX
Country:	USA	Zipcode:	77549 -
Attention:	Raul Magallanes	Relationship:	Legal Counsel
(If your application is related to an application filed with the Commission, enter either the file number or the IB Submission ID of the related application. Please enter only one.)			
3. Reference File Number SESLIC2005111101553 or Submission ID			
4a. Is a fee submitted with this application?			
<input checked="" type="radio"/> If Yes, complete and attach FCC Form 159. If No, indicate reason for fee exemption (see 47 C.F.R. Section 1.1114).			
<input type="radio"/> Governmental Entity <input type="radio"/> Noncommercial educational licensee			
<input type="radio"/> Other (please explain):			
4b. Fee Classification CGX – Fixed Satellite Transmit/Receive Earth Station			
5. Type Request			
<input checked="" type="radio"/> Use Prior to Grant <input type="radio"/> Change Station Location <input type="radio"/> Other			
6. Requested Use Prior Date			
11/07/2007			

7. City Gulf of Mexico	8. Latitude (dd mm ss.s h) 27 21 12.8 N
9. State LA	10. Longitude (dd mm ss.s h) 94 37 31.1 W
11. Please supply any need attachments. Attachment 1: Cover Letter Attachment 2: Antenna Patterns Attachment 3:	
12. Description. (If the complete description does not appear in this box, please go to the end of the form to view it in its entirety.) <div style="border: 1px solid black; padding: 5px; margin: 10px 0;">STA to increase power to KerrMcGee Boomvang</div>	
13. 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. <input checked="" type="radio"/> Yes <input type="radio"/> No	
14. Name of Person Signing Alan Aronowitz	15. Title of Person Signing VP & General 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).	

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THE FOREGOING NOTICE IS REQUIRED BY THE PAPERWORK REDUCTION ACT OF 1995, PUBLIC LAW 104-13, OCTOBER 1, 1995, 44 U.S.C. SECTION 3507.

October 29, 2007

Scott Kotler, Chief
System Analysis Branch
Satellite Division
International Bureau
Federal Communications Commission
445 12th Street SW
Washington, DC 20554

Re: Request for Special Temporary Authority, E050331

Dear Mr. Kotler,

Pursuant to Section 25.120(a) of the Rules and Regulations (“Regulations”) of the Federal Communications Commission (“Commission”), CapRock Communications, Inc. (“CapRock”), by way of the underlying application, seeks Commission consideration for a Special Temporary Authority (“STA”) to increase the EIRP of an earth station located the Gulf of Mexico. The earth station at issue has an FCC file designation of SES-LJC20051111-01553 and call sign of E050331.

According to Section 25.120(b)(3) of the Regulations, the Commission may grant temporary authority for a period not to exceed 60 days, if the STA request has not been placed on public notice, and the applicant plans to file a request for regular authority for the service. In the instant case, the STA request has not been placed on public notice and CapRock plans to file an application for modification once frequency coordination is concluded. Therefore, CapRock respectfully requests an STA for a period not to exceed 60 days.

According to Section 25.120 (b)(1) of the Commission’s rules, “The Commission may grant a temporary authorization only upon a finding that there are extraordinary circumstances requiring temporary operations in the public interest and that delay in the institution of these temporary operations would seriously prejudice the public interest”.

In the instant case, CapRock requests an STA to increase the power and power density of an existing earth station installed at an oil platform in the Gulf of Mexico (“The Earth Station”). This Earth Station is the primary means of communication for the platform. Due to increased personnel and increased demand for the platform operations, the Earth Station capacity has become insufficient. Therefore, it is necessary that the Earth Station power and power density be increased to accommodate the platform communications growth.

The circuit at issue is the customer’s only means of communication. In order to insure uninterrupted service, the requested date for prior use is November 7, 2007. In accordance to Section 25.120(a) of the Regulations, this STA is being filed at least 3 working days prior to the date of proposed operation.

Because of the nature of operations in this platform and the critical role of the existing Earth Station communications link, it is in the public interest that the Earth Station be upgraded with sufficient capacity to accommodate the critical calls that are placed by platform personnel. In

addition, should there be an emergency in this platform; this Earth Station would be used to place calls to communicate with the appropriate agencies. It is imperative that the communications link not be overloaded or has the potential for blocked calls in these circumstances.

The antenna at issue is a C-band Seatec 9797 (2.4m) ("Antenna"). The Antenna does not strictly comply with Section 25.209 of the Regulations. However, pursuant to Section 25.220 (b-c) of the Regulations, an applicant may request the Commission to consider a non-compliant antenna if it can be shown that the operational power density will be below the requirement of Section 25.212(c)(2). Specifically, the earth station operator must provide the power and power density levels that result by reducing the values stated in Section 25.212(c)(2) by the number of decibels that the non-compliant antenna fails to meet the standards of Section 25.209 of the Regulations.

The proposed C-band earth station, as modified, will exhibit a maximum power density at the flange of -22.14 dBW/4KHz which is 19.44 dB below the maximum allowed of -2.7dBW/4KHz. In addition, there has been a preliminary interference study performed on this site with no anticipated harmful interference cases.

In this case, the proposed Antenna exceeds the patterns of Section 25.209 by approximately 2dB in the 9° to 12° region along the azimuth axis. The Antenna is designed to operate with a maximum EIRP density into the antenna flange of -22.14 dBW/4KHz. This is 19.44 dB below the -2.7dBW/4KHz limit. Applying the methodology in Section 25.220 (b-c), the maximum EIRP density at Antenna flange is increased by 2dB to yield,

$$-22.14 \text{ dBW/4KHz} + 2 \text{ dB} = -20.14 \text{ dBW/4KHz}$$

As calculated, this figure is still below the allowed maximum EIRP density at the Antenna flange of -2.7.0 dBW/4KHz by 17.44 dB.

A spectral density study is attached as Appendix A hereto.

Sincerely,

/s/ Raul Magallanes

Attorney