

APPLICATION FOR EARTH STATION SPECIAL TEMPORARY AUTHORITY

APPLICANT INFORMATION Enter a description of this application to identify it on the main menu:
Harris CapRock Communications Inc. seeks to operate under STA with the added Emission Designator 9M38G7W to its Earth Station license currently authorized under Call Sign E050206 (Constitution).

1. 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:
City: Houston State: TX
Country: USA Zipcode: 77048
Attention: Ms EllenAnn Sands



File # SES-STA-20170309-00247
E050206
Call Sign E050206 Grant Date 3-16-17
(or other identifier)
Term Dates
From: 3-16-17 To: 3-15-17
Approved: *[Signature]*

Applicant: Harris CapRock Communications Inc.
Call Sign: E050206
File No.: SES-STA-20170309-00247
Special Temporary Authority (STA)

Harris CapRock Communications Inc. ("Harris CapRock") is granted special temporary authority, for 60-days, beginning March 16, 2017 to operate its fixed earth station on the Constitution Oil Platform in the Gulf of Mexico with currently authorized satellite points of communication using emission designator 9M38G7W in the 5425-6425 MHz (Earth-to-space) and 3700-4200 MHz (space-to-Earth) frequency bands under the following conditions:

1. Operations in 5925-6425 MHz frequency band shall not exceed the EIRP density limits specified in the current earth station authorization. .
2. Operations, shall not cause harmful interference to, and shall not claim protection from, interference caused to it by any other lawfully operating station and it shall cease transmission(s) immediately upon notice of such interference.
3. Grant of this STA is without prejudice to any determination that the Commission may make regarding any Harris CapRock's future applications.
4. Any action taken or expense incurred as a result of operations pursuant to this STA is solely at Harris CapRock's risk.
5. The licensee shall take all necessary measures to ensure that the antenna does not create potential exposure of humans to radiofrequency radiation in excess of the FCC exposure limits defined in 47 CFR 1.1307(b) and 1.1310 wherever such exposures might occur. Measures must be taken to ensure compliance with limits for both occupational/controlled exposure and for general population/uncontrolled exposure, as defined in these rule sections. Compliance can be accomplished in most cases by appropriate restrictions, such as fencing. Requirements for restrictions can be determined by predictions based on calculations, modeling, or by field measurements. The FCC's OET Bulletin 65 (available on-line at www.fcc.gov/oet/rfsafety) provides information on predicting exposure levels and on methods for ensuring compliance, including the use of warning and alerting signs and protective equipment for workers.
6. This action is issued pursuant to Section 0.261 of the Commission's rules on delegated authority, 47 C.F.R. §0.261, and is effective immediately.



File # SES-STA-20170309-00247
E050206
Call Sign _____ Grant Date 3-16-18
(or other identifier)
Term Dates
From: 3-16-17 To: 5-15-17
Approved: Paul E. Blawie

2. Contact	
Name: Timothy Doughty	Phone Number: 202-434-4271
Company: Keller and Heckman LLP	Fax Number: 202-434-4646
Street: 1001 G Street NW Suite 500 West	E-Mail: doughty@khlaw.com
City: Washington	State: DC
Country: USA	Zipcode: 20001 -
Attention:	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 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 03/15/2017	
7. City/Gulf of Mexico	
8. Latitude (dd mm ss.s h) 27 17 31.9 N	

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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.

REQUEST FOR SPECIAL TEMPORARY AUTHORITY

Harris CapRock Communications Inc. (“Harris CapRock”), pursuant to Section 1.931 of the Rules and Regulations of the Federal Communications Commission (“FCC” or “Commission”), respectfully requests Special Temporary Authority (“STA”) effective as soon as possible for a period of 180 days, or until it has secured regular authority for modifications to its Earth Station licenses identified by Call Signs E050206 (Constitution), E030159 (Gunnison), E050333 (Nansen), and E050331 (Boomvang) (the “Earth Stations”) as discussed below.

Background

Harris CapRock provides comprehensive communications and IT services to Anadarko Petroleum Corporation, one of the largest independent oil and natural gas exploration and production companies in the world. Anadarko had approximately 2.06 billion barrels of oil equivalent of proved reserves at year-end 2015. Harris CapRock’s Earth Stations provide voice and data services to personnel on Anadarko’s Constitution, Gunnison, Nansen, and Boomvang oil platforms in the Gulf of Mexico.

Special Temporary Authority

The Commission may grant STA “in emergency situations,” “to permit restoration or relocation of existing facilities to continue communications service,” and “in other situations involving circumstances which are of such extraordinary nature that delay in the institution of temporary operation would seriously prejudice the public interest.”¹ Harris CapRock’s C-band Earth Stations provide critical broadband connectivity for voice and data transmissions to and from Anadarko’s oil platforms. The bandwidth currently authorized under its Earth Station licenses is not sufficient to support Anadarko’s communications requirements.

Harris CapRock seeks STA to permit operation of its Earth Stations with the added Emission Designator 9M38G7W. Micronet Communications, Inc. has completed its initial frequency coordination review and has certified that all sites pass with the requested bandwidth and Micronet has certified that the Maximum EIRP Density will not increase beyond what is currently authorized under the existing licenses. Moreover, CapRock will submit regular authority modification applications to add the new Emission Designator once frequency coordination is complete.

Without increased bandwidth, Anadarko’s satellite communications capabilities will be limited during the pendency of the modification applications, which will limit critical communications supporting Anadarko’s oil production in the Gulf of Mexico. Reliable broadband connectivity is critical to operational integrity and the safety of personnel and the environment. Anadarko’s C-Band transmissions are the most important component of its communications for its production platforms.

¹ 47 C.F.R. § 1.931(b)(2)(ii),(v).

Harris CapRock Communications Inc.
Fixed Satellite Service, Earth Stations

In light of the foregoing, Harris CapRock submits that grant of the requested STA will serve the public interest, convenience, and necessity and favorable Commission action is warranted.

* * *

Should the Commission require additional information, it is asked to contact Wes Wright or Tim Doughty of Keller and Heckman LLP, 1001 G Street NW, Washington, DC 20001; (202)434-4296; e-mail: wright@khlaw.com; (202)434-4271; e-mail: doughty@khlaw.com.

Micronet Communications, Inc.
720 F Avenue, Suite 100
Plano, Texas 75074
972-422-7200

File: M1703013

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TECHNICAL CHARACTERISTICS OF TRANSMIT ONLY EARTH STATION

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Company:	Harris CapRock Communications Inc.		
Site Name, State:	Constitution, GM		
Call Sign:	E050206		
Latitude	(NAD83)	27 17	31.9 N
Longitude	(NAD83)	90 58	4.8 W
Elevation AMSL	(ft/m)	0.00	0.00
Receive Frequency Range	(MHz)		
Transmit Frequency Range	(MHz)	5925-6425	
Range of Satellite Orbital Long.	(deg W)	74.00	139.00
Range of Azimuths from North	(deg)	146.36	247.59
Antenna Centerline	(ft/m)	158.20	48.22
Antenna Elevation Angles	(deg)	53.00	28.86

Equipment Parameters		Transmit
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Antenna Gain, Main Beam	(dbI)	41.70
15 DB Half Beamwidth	(deg)	1.20

Antennas Transmit: SEATEL 9797

Max Transmitter Power	(dbW/4KHz)	-18.20
Max EIRP Main Beam	(dbW/4KHz)	23.50
Modulation / Emission Designator	ANALOG	9M38G7W

Coordination Parameters		Transmit
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Max Greater Circle Distances	(km)	134.06
Max Rain Scatter Distances	(km)	100.00
Max Interference Power Long Term	(dbW)	-154.00
Max Interference Power Short Term	(dbW)	-130.80
Rain Zone / Radio Zone		1 A

Routine Licensing for Antennas Smaller than 4.5 meters

Pursuant to 25.220 of the Rules and Regulations ("Regulations") of the Federal Communications Commission ("Commission"), the operator of an antenna smaller than 4.5m in the 4/6 GHz frequency bands must demonstrate the unacceptable interference will not be caused to any and all affected adjacent satellites. The proposed antenna in this application is a Seatel 9797 antenna, which was previously applied for and granted under application SES-LIC-200505-00538, call sign E050131. This system will operate with an EIRP density of -22.14 dbW/4kHz, well below the required limit.