

Approved by OMB
3060-0678

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 E030159 (Gunnison).

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 20170309-00246
E030159
Call Sign E030159 Grant Date 3-15-17
(or other identifier)
Term Dates From: 3-15-17 To: 5-14-17
Approved: Mark E. Hays

Applicant: Harris CapRock Communications, Inc.
File No.: SES-STA-20170309-00246
Call Sign: E030159

Harris CapRock Communications, Inc., is granted special temporary authority (STA), for 60 days, beginning on March 15, 2017, to operate a 2.4 meter C-band antenna on its Gunnison, GM platform at 27° 18' 19" N, 93° 32' 20" W located in the Gulf of Mexico with currently authorized satellite points of communication using emission designator 9M38G7W in the 3700-4200 MHz (space-to-Earth) and 5925-6425 MHz (Earth-to-space) frequency bands under the following conditions:

1. Operations under this authority are on a non-interference basis only.
2. Operations under this authority are on a non-protected basis only.
3. In the event of any harmful interference under this grant of special temporary authority, Harris CapRock Communications, Inc., must cease operations immediately upon notification of such interference, and must inform the Commission, in writing, immediately of such an event.
4. Operations in 5925-6425 MHz frequency band shall not exceed the EIRP density limits specified in the current earth station authorization, call-sign E030159, IBFS File No: SES-MFS-20160112-00007.
5. Grant of this STA is without prejudice to any determination that the Commission may make regarding any Anadarko Petroleum Corporation's future applications.
6. Any action taken or expense incurred as a result of operations pursuant to this special temporary authority is solely at Harris CapRock Communications, Inc.'s risk.
7. 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-20170309-00246
Call Sign E030159 Grant Date 3-15-17
(or other identifier)
Term Dates
From 3-15-17 To: 5-14-17
Approved: Paul E. Han

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?			
☒ 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):			
4b. Fee Classification CGX – Fixed Satellite Transmit/Receive Earth Station			
5. Type Request			
☒ Use Prior to Grant ☐ Change Station Location ☐ Other			
6. Requested Use Prior Date 03/15/2017			
7. City/Gulf of Mexico		8. Latitude (dd mm ss.s h) 27 18 19.0 N	

9. State	10. Longitude (dd mm ss.s h) 93 32 20.0 W
11. Please supply any need attachments. Attachment 1: Request for STA Attachment 2: Path Data Sheet Attachment 3: Section 25.220 Cert.	
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.) 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 E030159 (Gunnison) .	
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" and for these purposes. Yes ☒ No ☐	
14. Name of Person Signing EllenAnn Sands	15. Title of Person Signing Senior 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.

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.

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.

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

File: M1703012

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TECHNICAL CHARACTERISTICS OF TRANSMIT ONLY EARTH STATION

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Company:	Harris CapRock Communications Inc.		
Site Name, State:	Gunnison, GM		
Call Sign:	E030159		
Latitude	(NAD83)	27 18	19.0 N
Longitude	(NAD83)	93 32	20.0 W
Elevation AMSL	(ft/m)	65.94	20.10
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)	142.27	245.71
Antenna Centerline	(ft/m)	88.91	27.10
Antenna Elevation Angles	(deg)	51.47	31.13

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)	-16.70
Max EIRP Main Beam	(dbW/4KHz)	25.00
Modulation / Emission Designator	ANALOG	9M38G7W

Coordination Parameters	Transmit
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Max Greater Circle Distances	(km)	136.00
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