

Emergency STA Conditions of Grant

Company: Harris Corporation

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Harris Corporation's request for Special Temporary Authority (STA) to operate a 2.4m Patriot antenna system with a 15W BUC and a look angle of 54.91 degrees at the radar site on the property of Tyndall AFB with the SES-2 satellite at the 87° W.L. orbital location in the 5925-6425 MHz (Earth-to-space) and 3700-4200 MHz (space-to-Earth) frequency bands is granted for 30 days beginning 10/22/2018 under the following conditions:

1. All operations under this STA are on an unprotected and non-harmful interference basis.
2. Analog earth station operation in the conventional or extended C-bands. (1) For co-polarized transmissions in the plane tangent to the GSO arc, as defined in §25.103:

29.5-25log10θ	dBW/4 kHz	for $1.5^\circ \leq \theta \leq 7^\circ$.
8.5	dBW/4 kHz	for $7^\circ < \theta \leq 9.2^\circ$.
32.5-25log10θ	dBW/4 kHz	for $9.2^\circ < \theta \leq 48^\circ$.
-9.5	dBW/4 kHz	for $48^\circ < \theta \leq 180^\circ$.

Where θ is the angle in degrees from a line from the earth station antenna to the assigned orbital location of the target satellite. The EIRP density levels specified for $\theta > 7^\circ$ may be exceeded by up to 3 dB in up to 10% of the range of theta (θ) angles from ± 7 -180°, and by up to 6 dB in the region of main reflector spillover energy.

For co-polarized transmissions in the plane perpendicular to the GSO arc, as defined in §25.103:

32.5-25log10θ	dBW/4 kHz	for $3^\circ \leq \theta \leq 48^\circ$.
-9.5	dBW/4 kHz	for $48^\circ < \theta \leq 180^\circ$.

Where θ is as defined in paragraph (c)(1) of this section. These EIRP density levels may be exceeded by up to 6 dB in the region of main reflector spillover energy and in up to 10% of the range of θ angles not included in that region, on each side of the line from the earth station to the target satellite.

For cross-polarized transmissions in the plane tangent to the GSO arc and in the plane perpendicular to the GSO arc:

19.5-25log10θ	dBW/4 kHz	for $1.5^\circ \leq \theta \leq 7^\circ$.
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Where θ is as defined in paragraph (c)(1) of this section.

- 3.** Digital earth station operation in the conventional or extended C-bands. (1) For co-polarized transmissions in the plane tangent to the GSO arc:

26.3-25log10 θ	dBW/4 kHz	for $1.5^\circ \leq \theta \leq 7^\circ$.
5.3	dBW/4 kHz	for $7^\circ < \theta \leq 9.2^\circ$.
29.3-25log10 θ	dBW/4 kHz	for $9.2^\circ < \theta \leq 48^\circ$.
-12.7	dBW/4 kHz	for $48^\circ < \theta \leq 180^\circ$.

Where θ is as defined in paragraph (c)(1) of this section. The EIRP density levels specified for $\theta > 7^\circ$ may be exceeded by up to 3 dB in up to 10% of the range of theta (θ) angles from ± 7 -180°, and by up to 6 dB in the region of main reflector spillover energy.

For co-polarized transmissions in the plane perpendicular to the GSO arc:

29.3-25log10 θ	dBW/4 kHz	for $3^\circ \leq \theta \leq 48^\circ$.
-12.7	dBW/4 kHz	for $48^\circ < \theta \leq 180^\circ$.

Where θ is as defined in paragraph (c)(1) of this section. These EIRP density levels may be exceeded by up to 6 dB in the region of main reflector spillover energy and in up to 10% of the range of θ angles not included in that region, on each side of the line from the earth station to the target satellite.

For cross-polarized transmissions in the plane tangent to the GSO arc and in the plane perpendicular to the GSO arc:

16.3-25log10 θ	dBW/4 kHz	for $1.5^\circ \leq \theta \leq 7^\circ$.
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Where θ is as defined in paragraph (c)(1) of this section.

- 4.** Harris Corporation is not authorized to transmit on the earth station while in motion.
- 5.** Harris Corporation shall cease operations immediately upon notification of such interference and inform the Commission in writing immediately of such an event.
- 6.** Harris Corporation must take all reasonable and customary measures to ensure that the earth station(s) do(es) not create a potential for harmful non-ionizing radiation to persons who may be in the vicinity of the earth station when it is in operation. At a minimum, permanent warning labels shall be fixed to the earth station and its housing warning of the radiation hazard and including a diagram showing the regions around the earth station where radiation levels could exceed 1.0mW/cm². The earth station operator shall be responsible for assuring that individuals do not stray into the regions around the earth station where there is a potential for exceeding the maximum permissible exposure limits required by 47 C.F.R. § 1.1310.
- 7.** Any action taken or expense incurred as a result of operations pursuant to this special authority is solely at Harris Corporation own risk.
- 8.** The grant of the verbal STA request was issued in accordance with emergency procedures put in place to provide communications in areas affected by Hurricane Michael. To ensure that the Commission has a complete record of the request and action taken, Harris Corporation is

directed to file an electronic version of its STA request submitted through IBFS as soon as possible. Go to <http://licensing.fcc.gov/myibfs/> to file the STA and request an extension of this STA.

9. This STA may be terminated at the International Bureau's discretion, without a hearing, if conditions warrant. Under no circumstances may the facility(ies) authorized violate the terms of an international agreement or treaty. If an application for permanent authority is on file with the Commission, this action is taken without prejudice to that application. The applicant is required to post and/or retain a copy of this authorization as required by the Commission's Rules.
10. This grant 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.


/s/

Paul Blais

Chief Systems Analysis Branch.

202.418.7274 FCC Desk

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 GRANTED International Bureau	File # _____
	Call Sign _____ Grant Date _____ (or other identifier)
	Term Dates From _____ To: _____
	Approved: <u>Paul E Blais</u>