

Applicant: RBC Signals, LLC
No Call Sign
File No.: SES-STA-20200724-00799
Special Temporary Authority

RBC Signals, LLC (“RBC Signals”) is granted special temporary authority (“STA”) for 180 days, commencing on December 1, 2020 ending on May 30, 2021, to operate a fixed 3.57 meter Yagi antenna model 400CP30A located at a commercial licensed Fixed Satellite Service earth station in Windham, NY to conduct telemetry, tracking and command (“TT&C”) operations in the 401.0875-401.1125 MHz (Earth-to-space) and 401.0375-401.0625 MHz (space-to-Earth) frequency bands to provide launch and operational support for the sun-synchronous orbit Aurorasat-1 cubesat system licensed by the Finnish administration. The launch date for the satellite is expected to be in December 2020. Operations of STA shall be under the following conditions:

1. All operations shall be limited to telemetry, tracking and command (“TT&C”) support for the Aurorasat-1 cubesat.
2. Transmission from the RBC Signal LLC ground station shall cease when the NASA International Space Station (NORAD designation 25544, International Spacecraft ID 1998-067A) is within horizon to horizon view of the Windham, New York facility.
3. Operations shall be with the coordinated 0.2 W input power at the antenna flange, 20K0F1D emission carrier designator for TT&C with maximum eirp of 9.2 dBW, eirp density of 2.2 dBW/4KHz.
4. Sun-synchronous orbit Aurorasat-1 cubesat system at 550 km apogee and 550 km perigee with an inclination from the equator of 97.5°.
5. This authorization is not a grant of market access to the United States.
6. The current 24/7 contact is Zachary Reich, phone number 415 622 5548; Christopher Richins, crichins@rbcsignals.com.
7. All operations under this grant of STA shall be on an unprotected and non-harmful interference basis. RBC Signals shall not cause harmful interference to, and shall not claim protection from interference, any other lawfully operating radio communication system.
8. In the event of any harmful interference RBC Signals shall cease operations immediately upon notification of such interference, and shall immediately inform the Commission, in writing, of such an event.
9. Grant of this STA is without prejudice to any determination that the Commission may make regarding pending or future RBC Signals’ applications.

10. RBC Signals shall, at all times, take all necessary measures to ensure that operation of this 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. Physical 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 [ww.fcc.gov/oet/rfsafety](http://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.
11. Any action taken, or expense incurred as a result of operations pursuant to this STA is solely at RBC Signals 's risk.

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 upon release.