

Revised Conditions. Added condition 5 per N71A coordination response.

File # SES-STA-20180430-00416

Applicant: RBC Signals LLC
File No: SES-STA-20180430-00416
Call Sign: None
Special Temporary Authority (STA)



Call Sign N/A Grant Date 5/31/2018
(or other identifier)
Term Dates
From 6/1/2018 To: 7/1/2018
Approved: Paul E. Blase

RBC Signals LLC was granted special temporary authorization beginning June 1, 2018, for 30-days to perform tracking, telemetry and command ("TT&C") for housekeeping, orientation and subsystem control of the Analytical Space, Inc.'s ("ASI") Radix experimental CubeSat operating in the in a 400 km x 400km sun-synchronous orbit with an inclination of approximately 51.6° in the 401.24-401.36 MHz (Earth-to-space/space-to-Earth) frequency band from a fixed earth station locate Windham, NY at NL 42° 20' 11.3" WL 74° 15' 37.4" (NAD-83). Under the following conditions.

Conditions

1. Operations shall be on an unprotected, non-interference basis with respect to other authorized stations, including federal stations.
2. All operations will are limited to the parameters in the table below.

Antenna:	YAGI-1
Antenna size (meters):	0.025/3.57
Antenna Gain (dBi):	16.2
Satellite Arc Range for Earth Station	NGSO cubesat operating at a nominal 400 km circular, sun-synchronous orbit with an inclination of approximately 51.6°.
Input power (watts):	12.53 w (11 dBW)
Transmit Frequency (MHz):	401.24-401.36
Receive Frequency (MHz)	401.24-401.36
Emission	114KG1D
EIRP (dBW Carrier)	27.2
EIRP (dBW4 KHz /)	12.6

3. RBC should not have any expectation of having operation in the 401.24 - 401.36 MHz authorized in the long term. Any future requests or extensions will need to submit applications to the FCC to be re-coordinated with NTIA.
4. Any action taken or expense incurred as a result of operations pursuant to this STA is solely at RBC's risk.
5. Uplink operations from the M2 Antenna Systems Yagi antenna to the Radix CubeSat shall not occur when the NASA International Space Station (ISS) (NORAD designation 25544 or international spacecraft ID 1998-067A) is within the horizon to horizon view of the RBC signals facility in Windham, New York.

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.