

APPLICATION FOR EARTH STATION SPECIAL TEMPORARY AUTHORITY

APPLICANT INFORMATION Enter a description of this application to identify it on the main menu:
Request for Special Temporary Authority Using Hagerstown, MD Earth Station E170081 to Provide TT&C/Communications Services for SKY-B1 Satellite

1. Applicant

Name: Intelsat License LLC Phone Number: 703-559-7848
DBA Name: Fax Number: 703-559-8539
Street: c/o Intelsat Corporation E-Mail: susan.crandall@intelsat.com
7900 Tysons One Place
City: McLean State: VA
Country: USA Zipcode: 22102 -5972
Attention: Susan H. Crandall

File # SES-STA-20170317-00312
E170081
Call Sign 32881 Grant Date 3-28-17
(or other identifier) Term Dates
From: 3-28-17 To: 5-27-17
Approved: *Susan H. Crandall*



GRANTED
International Bureau

Applicant: Intelsat License LLC
Call Sign: E170081
File No.: SES-STA-20170317-00312
Special Temporary Authority (STA)



File # SES-STA-20170317-00312
E170081
Call Sign E170081 Grant Date 3-28-17
(or other identifier)
Term Dates
From: 3-28-17 To: 5-27-17
Approved: Paul E. Wood

Intelsat License LLC is granted STA, for 60 days, beginning March 28, 2016, to operate its fixed earth station in Hagerstown, Maryland located at 39° 35' 53.8" N.L, 077° 45' 20.8" W.L to provide telemetry, tracking, and control (TT&C) functions and communications services for SKY-B1 satellite (Call Sign S2922) at 43.15° W.L. will be under the following conditions:

1. TT&C operations with the coordinated power emission carrier 1M00G7D in the 13249.5 MHz (V) and 14498 MHz (H) uplink frequencies (Earth-to-space), and the coordinated emission carrier 500KG7D in the downlink frequencies (space-to-Earth): 11443 MHz, 11447 MHz, 11443.5 MHz and 11446.5 MHz (V).
2. Communications operations will be operated on 12750-13250 MHz and 13750-14500 MHz uplink frequencies and 11450-11700 MHz and 11700-12200 MHz in the downlink frequencies.
3. Use of the frequency band 13.75-14.00 GHz shall comply with United States Footnotes US356 (used to be S5.502) and US357 (used to be S5.503) in the Section 2.106 and the Section 25.204 (f) of the Commission's Rules.
4. 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 and notify the FCC in writing.
5. 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.
6. In the event of any harmful interference under this grant of STA, Intelsat License LLC E170081 must cease operations immediately upon notification of such interference, and must inform the Commission, in writing, immediately of such an event.
7. Transmitter(s) must be turned off during antenna maintenance to ensure compliance with the FCC-specified safety guidelines for human exposure to radiofrequency radiation in the region between the antenna feed and the reflector. Appropriate measures must also be taken to restrict access to other regions in which the earth station's power flux density levels exceed the specified guidelines.
8. 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. 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.

9. Grant of this authorization is without prejudice to any determination that the Commission may make regarding pending or future Intelsat License LLC applications.

10. Any action taken or expense incurred as a result of operations pursuant to this STA is solely at Intelsat License LLC's risk.

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.

| | | | |
|---|-----------------------|----------------------|----------------------------|
| 2. Contact | | | |
| Name: | Cynthia J. Grady | Phone Number: | 703-559-6949 |
| Company: | Intelsat Corporation | Fax Number: | 703-559-8539 |
| Street: | 7900 Tysons One Place | E-Mail: | cynthia.grady@intelsat.com |
| City: | McLean | State: | VA |
| Country: | USA | Zipcode: | 22102 -5972 |
| 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 type="radio"/> Use Prior to Grant <input type="radio"/> Change Station Location <input checked="" type="radio"/> Other | | | |
| 6. Requested Use Prior Date | | | |
| 7. City Hagerstown | | | |
| 8. Latitude (dd mm ss.s h) 39 35 53.8 N | | | |

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INTELSAT

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March 17, 2017

Ms. Marlene H. Dortch
Secretary
Federal Communications Commission
445 12th Street, S.W.
Washington, D.C. 20554

Re: Request for Special Temporary Authority
Hagerstown, Maryland Earth Station E170081
EXPEDITED TREATMENT REQUESTED

Dear Ms. Dortch:

Intelsat License LLC (“Intelsat”) herein requests an expedited grant of Special Temporary Authority (“STA”)¹ for 60 days, commencing March 28, 2017, to use its Hagerstown, Maryland Ku-band earth station—call sign E170081—to provide telemetry, tracking, and command (“TT&C”) and communications services for the SKY-B1 satellite (S2922) at 43.15° W.L.² Intelsat has a pending permanent license application for this antenna.³

The proposed TT&C operations will be performed using the following frequencies:

- 13249.5 MHz and 14498 MHz in the uplink; and
- 11443 MHz, 11447 MHz, 11443.5 MHz, and 11446.5 MHz in the downlink.

The proposed communications operations will be performed using the following frequency bands:

- 12750-13250 MHz and 13750-14500 MHz in the uplink; and
- 11450-11700 MHz and 11700-12200 MHz in the downlink.

In further support of this request, Intelsat herewith incorporates by reference the technical information previously provided regarding the operations of E170081.⁴ In addition, Intelsat will take all practical

¹ Intelsat has filed its STA request, an FCC Form 159, a \$200.00 filing fee, and this supporting letter electronically via the International Bureau’s Filing System (“IBFS”).

² See DIRECTV Enterprises, LLC Fleet Management Notice for SKY-B1 Satellite, Call Sign S2922, File No. SAT-MOD-20170221-00019 (filed Feb. 21, 2017).

³ See *Intelsat License LLC Application for New 13.1m Earth Station for Mountainside, Maryland Teleport*, File No. SES-LIC-20170310-00256 (filed Mar. 10, 2017).

⁴ *Id.*

Ms. Marlene H. Dortch
March 17, 2017
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steps to protect radio astronomy services and will operate on a non-protected, non-interference basis. In the extremely unlikely event that harmful interference should occur, Intelsat will take all reasonable steps to eliminate the interference.

The proposed operations with SKY-B1 at 43.15° W.L. will be consistent with Intelsat's coordination agreements for the nominal 43° W.L. In the unlikely event that harmful interference occurs, Intelsat will take all necessary steps to eliminate the interference.

Grant of this expedited STA request will help ensure safe station-keeping of the SKY-B1 satellite and continuity of service at the 43.15° W.L. orbital location and thereby promotes the public interest.

Please direct any questions regarding this STA request to the undersigned at (703) 559-6949.

Respectfully submitted,

/s/ Cynthia J. Grady

Cynthia J. Grady
Regulatory Counsel
Intelsat Corporation

cc: Paul Blais



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March 23, 2017

Ms. Marlene H. Dortch
Secretary
Federal Communications Commission
445 12th Street, S.W.
Washington, D.C. 20554

Re: Application for a New 13.1m Earth Station in Hagerstown, Maryland
File No. SES-LIC-20170310-00256; Call Sign E170081

Dear Ms. Dortch:

At the request of the Federal Communications Commission staff, Intelsat License LLC (“Intelsat”) herein supplements its above referenced application. Specifically, Intelsat is providing an additional transmit antenna gain for the 12.75 – 13.25 GHz band and correcting the maximum EIRP/carrier (dBW) and maximum EIRP density/carrier (dBW/4kHz) for the 13.75 – 14.0 GHz band. Changes are shown below in red:

ANTENNA

| Site ID | E28. Antenna Id | E29. Quantity | E30. Manufacturer | E31. Model | E32. Antenna Size<meters> | E41/42. Antenna Gain Transmint and/or Recieve (___ dBi at ___ GHz) |
|---------|-----------------|---------------|------------------------|------------|---------------------------|--|
| K79 | K79 | 1 | GD Satcom Technologies | 13.1KPK | 13.1 | 62.3 dBi at 11.83 |
| | | | | | | 63.6 dBi at 13.75 63.6 dBi at 13.0 |

| | | | | | | |
|--|----------------|---|----------------------------|---------|-----------|-----------|
| K79 | 13750 14000 | T | Horizontal and Vertical | 1M00G7W | 73.0 63.0 | 49.0 39.0 |
| E50. Modulation and Services (If the complete description does not appear in this box, please go to the end of the form to view it in its entirety.) | | | | | | |
| Digital Data | | | | | | |
| K79 | 13750 14000 | T | Horizontal and Vertical | 36M0G7W | 82.3 78.5 | 42.8 39.0 |
| E50. Modulation and Services (If the complete description does not appear in this box, please go to the end of the form to view it in its entirety.) | | | | | | |
| Digital Data | | | | | | |
| K79 | 13750 14000 | T | Horizontal and Vertical | 62M5G7W | 82.3 80.9 | 40.4 39.0 |

Please direct any further questions regarding this application to the undersigned at (703) 559-6949.

Sincerely,

/s/ Cynthia J. Grady

Cynthia J. Grady
Regulatory Counsel
Intelsat Corporation

cc: Paul Blais
Trang Nguyen
Towanda Bryant