

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 Riverside, California Earth Station E040125 for IRNSS-1F LEOP

1. Applicant

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



"With Conditions"

File # SES-STA-20160217-00147

Call Sign E040125 Grant Date 02/29/2016
(or other identifier)

Term Dates
From 03/10/2016 To: 04/08/2016

Approved: Paul E. Hester

Application: Intelsat License LLC
File No.: SES-STA-20160217-00147
Call Sign: E040125
Special Temporary Authority (STA)

Intelsat License LLC is granted a STA, under the following conditions, for 30 days, beginning March 10, 2016, to operate its C-band earth station, Call Sign E040125, in Riverside, California, to provide launch and early orbit phase ("LEOP") services for the Indian Regional Navigational Satellite System ("IRNSS-1F") 1F satellite at permanent orbital location 32.5° E.L., licensed by India. The in-orbit testing location will be 32.5° E.L. The launch is expected to be on March 10, 2016.

1. Uplink (Earth-to-space) frequencies will be on 6424.072 MHz, and 6425.980 MHz (CP) within the coordinated emission and power limits.
2. Downlink (space-to-Earth) frequencies will be on 4198.56 MHz, and 4199.28 MHz (CP).
3. All operators of satellites will be provided with an emergency phone number where the licensee can be reached in the event that harmful interference occurs, Currently the 24x7 contact information for the IRNSS-1F satellite mission is as follows: Ph.: (703) 559-7701 - East Coast Operations Center (primary); (310) 525-5591 - West Coast Operations Center (back-up). Request to speak with Harry Burnham or Kevin Bell.
4. All operations under this grant of STA shall be on an unprotected and non-harmful interference basis. Intelsat's E040125 shall not cause harmful interference to, and shall not claim protection from interference caused to it by, any other lawfully operating radio communication system.
5. In the event of any harmful interference under this grant of STA, Intelsat License, LLC E040125 must cease operations immediately upon notification of such interference, and must inform the Commission, in writing, immediately of such an event.
6. Grant of this authorization is without prejudice to any determination that the Commission may make regarding pending or future Intelsat License, LLC applications.
7. Any action taken or expense incurred as a result of operations pursuant to this STA is solely 'at Intelsat License, LLC's risk.
8. 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.

With condition

File # SES-STA-20160217-00147

Call Sign E040125 **Grant Date** 02/29/2016
(or other identifier)

From 03/10/2016 **Term Dates** 04/08/2016
To 04/08/2016

Approved: Paul E. Huet





INTELSAT.

Envision. Connect. Transform.

February 17, 2016

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

Re: Request for Special Temporary Authority
Riverside, California Earth Station E040125

Dear Ms. Dortch:

Intelsat License LLC (“Intelsat”) herein requests a grant of Special Temporary Authority (“STA”)¹ for 30 days, commencing March 10, 2016, to use its Riverside, California C-band earth station—call sign E040125—to provide launch and early orbit phase (“LEOP”) services for the Indian Regional Navigational Satellite System (“IRNSS”) 1F satellite. IRNSS-1F is expected to be launched on March 10, 2016.² The LEOP period is expected to last approximately 10 days.³

The IRNSS-1F LEOP operations will be performed in the following frequency bands: 6424.072 MHz and 6425.980 MHz in the uplink (CP), and 4198.56 MHz and 4199.28 MHz in the downlink (CP). The LEOP operations will be coordinated with all operators of satellites that use the same frequency bands and are in the LEOP path.⁴ All operators of satellites in that path will be provided with an emergency phone number where the licensee can be reached in the event that harmful interference occurs.

The 24x7 contact information for the IRNSS-1F LEOP mission is as follows:

Ph.: (703) 559-7701 – East Coast Operations Center (primary)
(310) 525-5591 – West Coast Operations Center (back-up)

Request to speak with Harry Burnham or Kevin Bell.

In further support of this request, Intelsat hereby attaches Exhibits A and B, which contain technical information that demonstrates that the operation of the earth station will be compatible with its electromagnetic environment and will not cause harmful interference into any lawfully operating

¹ Intelsat has filed its STA request, an FCC Form 159, a \$195.00 filing fee, and this supporting letter electronically via the International Bureau’s Filing System (“IBFS”).

² The permanent orbital location and in-orbit testing location for IRNSS-1F, which Intelsat understands is licensed by India, will be at 32.5° E.L.

³ Intelsat is seeking authority for 30 days to accommodate a possible launch delay.

⁴ Indian Space Research Organization, the manager of the IRNSS-1F LEOP mission, will handle the coordination.

Ms. Marlene H. Dortch
February 17, 2016
Page 2

terrestrial facility, as well as a waiver request. Intelsat also notes that for purposes of the IRNSS-1F LEOP mission, it is seeking to operate in the frequencies listed in the request at power levels not to exceed 34.0 dBW. In the extremely unlikely event that harmful interference should occur due to transmissions to or from its earth station, Intelsat will take all reasonable steps to eliminate the interference.

Finally, Intelsat clarifies that during the IRNSS-1F launch, the Indian Space Research Organization ("ISRO") will control the spacecraft. ISRO will build and send the commands to the Intelsat antenna, which will process and execute the commands. Telemetry received by Intelsat will be forwarded to ISRO. Intelsat will remain in control of the baseband unit, RF equipment, and antenna.

Grant of this STA request will allow Intelsat to help launch the IRNSS-1F satellite. This, in turn, will help provide navigation services to India and neighboring areas from the 32.5° E.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,



Cynthia J. Grady
Regulatory Counsel
Intelsat Corporation

cc: Paul Blais