

Before the
Federal Communications Commission
 Washington, DC 20554

In the Matter of

Intelsat License LLC

Application to Modify Authorization for
 Intelsat 905 (S2409)

File No. SAT-MOD- _____

**APPLICATION OF INTELSAT LICENSE LLC
 TO MODIFY AUTHORIZATION FOR INTELSAT 905**

Intelsat License LLC (“Intelsat”), pursuant to Section 25.117 of the rules of the Federal Communications Commission (“Commission” or “FCC”),¹ hereby seeks to modify the authorization for the Intelsat 905 satellite (Call Sign S2409), a C- and Ku-band satellite operating at 24.5° W.L.² Specifically, Intelsat seeks to extend the license term for the Intelsat 905 satellite, and a previously granted waiver,³ through November 30, 2024.

¹ 47 C.F.R. § 25.117.

² See Intelsat LLC, Application to Construct, Launch, and Operate Intelsat 905, File No. SAT-LOA-20000119-00023 (granted Aug. 2, 2000); *as modified by* Intelsat LLC, Intelsat 905 Modification, File No. SAT-MOD-20020315-00037 (granted May 15, 2002); *as further modified by* Intelsat North America LLC, Request for Waiver of Rule for Intelsat 905, File No. SAT-MOD-20050610-00120 (granted Sept. 30, 2005). The licenses originally held by Intelsat LLC were assigned in 2005 to Intelsat North America, which later changed its name to Intelsat Licensee LLC.

³ Specifically, Intelsat seeks waiver extension for the following Commission rule: 2.106, NG52 (formerly NG104). Due to recent rule changes, Intelsat is not seeking waiver extension for the following Commission rules, which have been eliminated: 47 C.F.R. §§ 25.140(b)(2), 25.202(g), 25.210(a)(1), 25.210(a)(3), 25.210(i), and 25.211(a) (rule sections as of the time of the 2000 grant).

In accordance with the requirements of the Commission's rules,⁴ this application has been filed electronically as an attachment to FCC Form 312. Intelsat incorporates by reference the information previously provided regarding the operations of Intelsat 905.⁵ Consistent with Section 1.62 of the Commission's rules,⁶ Intelsat will continue to operate the Intelsat 905 satellite pursuant to the terms and conditions of its expiring license until such time as the Commission makes a determination with respect to this request.

I. REQUEST FOR EXTENSION OF LICENSE TERM

Intelsat seeks to extend the license term for the Intelsat 905 satellite, and a previously granted waiver,⁷ through November 30, 2024. The Intelsat 905 satellite was placed into service on July 18, 2002.⁸ Pursuant to Sections 25.121(a) and (d)(1) of the Commission's rules, the license term for Intelsat 905 will expire on July 18, 2017.⁹ This expiration date is well before the expected end of service life of the satellite, which was most recently estimated to be late 2019, assuming no inclined orbit operation; inclined orbit operation would extend Intelsat 905's

⁴ 47 C.F.R. § 25.117(c).

⁵ *See supra* n. 2. To the extent necessary, Intelsat requests a waiver of § 25.114(a)(1) of the Commission rules, which requires submission of Schedule S. At the time of Intelsat 905's most recent authorization a Schedule S was not required. Given that this modification request seeks only to extend the satellite's license term and does not change any of the operational information previously provided to the FCC, there is good cause not to require Intelsat to provide a Schedule S.

⁶ 47 C.F.R. § 1.62 (permitting continued operations by a licensee where there is a proper and timely pending application for renewal of the license).

⁷ *See supra* n. 3.

⁸ *See* Letter from Patricia J. Paoletta, Counsel to Intelsat LLC, to Ms. Marlene H. Dortch, Federal Communications Commission, File No. SAT-MOD-20020315-00037 (July 24, 2002) (certifying that the Intelsat 905 spacecraft had been successfully placed into orbit).

⁹ 47 C.F.R. §§ 25.121(a), (d)(1).

expected end of service life an additional five years. In order to accommodate the planned inclined orbit operation of Intelsat 905, Intelsat is requesting that the license term be extended through November 30, 2024. To the extent the satellite's projected end of service life is extended in the future, Intelsat will seek an additional license term.

II. PUBLIC INTEREST SHOWING

Grant of this modification to extend the license term will serve the public interest by enabling customers to continue receiving service from Intelsat 905 at the 24.5° W.L. orbital location. The Intelsat 905 satellite subsystems and solar panels are functioning normally, and there are no single points of failure on Intelsat 905 that would result in an inability to de-orbit the satellite. Additionally, the satellite's TT&C functions are operating normally and most of the payload is operational. Extending the license term will promote the continued efficient use of orbital resources and is consistent with recent decisions by the Commission to extend satellite license terms.¹⁰

III. POST-MISSION DISPOSAL PLAN

At the end of the Intelsat 905 mission, Intelsat 905 will be disposed of by moving it to an altitude of at least 283.3 kilometers above the geostationary arc. For that purpose, 46.7 kilograms of fuel has been reserved.

In calculating the disposal orbit, Intelsat used simplifying assumptions as permitted under the Commission's *Orbital Debris Report and Order*.¹¹ The effective area to mass ratio (Cr^*A/M) of the Intelsat 905 spacecraft is 0.044 m²/kg, resulting in a minimum perigee disposal

¹⁰ See e.g., *Policy Branch Information; Actions Taken*, Report No. SAT-01156, File No. SAT-MOD-20160219-00019 (May 6, 2016) (Public Notice) (granting license extension for Intelsat 1R, a station-kept satellite, based on the satellite's current projected end of service including future inclination).

¹¹ *Mitigation of Orbital Debris*, Second Report and Order, 19 FCC Rcd 11567 (2004).

altitude under the Inter-Agency Space Debris Coordination Committee formula of 283.3 kilometers above the geostationary arc. Accordingly, the Intelsat 905 planned disposal orbit complies with the FCC's rules.

The reserved fuel figure was determined by the spacecraft manufacturer and provided for in the propellant budget. This figure was calculated taking into account the expected mass of the satellite at the end of life and the required delta-velocity to achieve the desired orbit. The fuel gauging uncertainty has been taken into account in these calculations.

Additionally, at the completion of the mission and upon disposal of the spacecraft, Intelsat will ensure the removal of all stored energy on the spacecraft by depleting all propellant tanks, venting all pressurized systems and by leaving the batteries in a permanent discharge state.

IV. CONCLUSION

For the reasons set forth above, Intelsat respectfully requests that the Commission grant this modification application.

Respectfully submitted,

Intelsat License LLC

By: /s/ Susan H. Crandall

Susan H. Crandall
Associate General Counsel
Intelsat Corporation

Jennifer D. Hindin
WILEY REIN LLP
1776 K Street, N.W.
Washington, D.C. 20006
May 2, 2017

Exhibit A

FCC Form 312, Response to Question 34: Foreign Ownership

The Commission previously approved foreign ownership in Intelsat License LLC (“Intelsat”), in the *Intelsat-Serafina Order*.¹ In December 2009 and October 2011, the Commission also approved *pro forma* changes in Intelsat’s foreign ownership.² There have been no other material changes to Intelsat’s foreign ownership since the date of the *Intelsat-Serafina Order*.

¹ *Intelsat Holdings, Ltd. and Serafina Holdings Limited, Consolidated Application for Consent to Transfer of Control of Holders of Title II and Title III Authorizations*, Memorandum Opinion and Order, 22 FCC Rcd 22,151 (2007).

² *See Intelsat North America LLC, Intelsat LLC, PanAmSat Licensee Corp., PanAmSat H-2 Licensee Corp., and Intelsat New Dawn Company, Ltd., Applications for Pro Forma Transfer of Control*, File Nos. SAT-T/C-20091125-00128, SAT-T/C-20091125-00124, SAT-T/C-20091125-00127, SAT-T/C-20091125-00125, SAT-T/C-20091125-00126, SES-T/C-20091125-01505, SES-T/C-20091125-01502, SES-T/C-20091125-01506, SES-T/C-20091125-01504 and SES-T/C-20091125-01503 (granted Dec. 3, 2009); *Intelsat Application for Pro Forma Transfer of Control*, File Nos. SAT-T/C-20110810-00160, SAT-T/C-20110811-00161, SES-T/C-20110811-00948, SES-T/C-20110812-00963 (granted Oct. 13, 2011), and 0004825139 (granted Oct. 19, 2011).

Exhibit B

FCC Form 312, Response to Question 36: Cancelled Authorizations

Intelsat License LLC (“Intelsat”) has never had an FCC license “revoked.” However, on June 26, 2000, the International Bureau “cancelled” two Ka-band satellite authorizations issued to a former Intelsat entity, PanAmSat Licensee Corp. (“PanAmSat”),¹ based on the Bureau’s finding that PanAmSat had not satisfied applicable construction milestones.² In that same order, the Bureau denied related applications to modify the cancelled authorizations. PanAmSat filed an application for review of the Bureau’s decision, which the Commission denied, and subsequently filed an appeal with the United States Court of Appeals for the District of Columbia Circuit, which was dismissed in January 2003 at PanAmSat’s request. Notwithstanding the fact that the Bureau’s action does not seem to be the kind of revocation action contemplated by question 36, Intelsat is herein making note of the decision in the interest of absolute candor and out of an abundance of caution. In any event, the Bureau’s action with respect to PanAmSat does not reflect on Intelsat’s basic qualifications, which are well-established and a matter of public record.

¹ All licenses previously held by PanAmSat Licensee Corp. have been assigned to Intelsat License LLC. See IBFS File Nos. SAT-ASG-20101203-00252 (granted Dec. 23, 2010), SES-ASG-20101203-0150 (granted Dec. 20, 2010), and SES-ASG-20101206-01502 (granted Dec. 20, 2010).

² See *PanAmSat Licensee Corp.*, Memorandum Opinion and Order, 15 FCC Rcd 18720 (IB 2000).

Exhibit C
FCC Form 312, Response to Question 40:
Officers, Directors, and Ten Percent or Greater Shareholders

The officers and directors/managers of Intelsat License LLC are as follows:

Officers:

Jacques Kerrest, Chairman
Franz Russ, Deputy Chairman
Michelle Bryan, Secretary
Mirjana Hervy, Director, Finance

Board of Managers:

Jacques Kerrest
Franz Russ
Michelle Bryan

The business address of all Intelsat License LLC officers and members of the Board of Managers is:

4 rue Albert Borschette
L-1246 Luxembourg

Intelsat License LLC is a Delaware limited liability company that is wholly owned by Intelsat License Holdings LLC, also a Delaware limited liability company. Intelsat License Holdings LLC is wholly owned by Intelsat Jackson Holdings S.A., a Luxembourg company. Intelsat Jackson Holdings S.A. is wholly owned by Intelsat (Luxembourg) S.A., a Luxembourg company. Intelsat (Luxembourg) S.A. is wholly owned by Intelsat Investments S.A., a Luxembourg company. Intelsat Investments S.A. is wholly owned by Intelsat Holdings S.A., a Luxembourg company. Intelsat Holdings S.A. is wholly owned by Intelsat Investment Holdings S.à r.l., a Luxembourg company. Intelsat Investment Holdings S.à r.l. is wholly owned by Intelsat S.A., a Luxembourg company. Each of these entities may be contacted at the following address: 4 rue Albert Borschette, L-1246 Luxembourg.

Intelsat S.A.'s ownership was approved by the Commission as part of the *Intelsat-Serafina Order* and the recent Intelsat Pro Forma and is incorporated by reference. *See Intelsat Holdings, Ltd. and Serafina Holdings Limited, Consolidated Application for Consent to Transfer of Control of Holders of Title II and Title III Authorizations*, Memorandum Opinion and Order, 22 FCC Rcd 22,151 (2007) ("*Intelsat-Serafina Order*"); *Intelsat Application for Pro Forma Transfer of Control*, File Nos. SAT-T/C-20110810-00160, SAT-T/C-20110811-00161, SES-T/C-20110811-00948, SES-T/C-20110812-00963 (granted Oct. 13, 2011), and 0004825139 (granted Oct. 19, 2011) ("*Intelsat Pro Forma*"). On May 16, 2012, the International Bureau granted an application to transfer control of Intelsat pursuant to a public offering of newly issued voting shares by Intelsat, subsequent voting share sales by current shareholders and possible private placements of newly issued voting shares. *In the Matter of Intelsat Global Holdings, S.A., Applications to Transfer Control of Intelsat Licenses and Authorizations from BC Partners Holdings Limited to Public Ownership*, Order, DA 12-768 (rel. May 16, 2012). This change of control has not yet been fully consummated.