

S2703 SAT-APL-20111117-00222 IB2011004925
Telesat Canada
ANIK F3

- corrected -



File # SAT-APL-20111117-00222 (see SAT-PPL-20110630-00123)

Call Sign S2703 Grant Date 4/11/2012 (subject to attached conditions
(or other identifier)

Approved by OMB
3060-0678

Term Dates
From - To: -

Approved: Fern J. Jarmelch

Date & Time Filed: Nov 17 2011 1:14:05:280PM
File Number: SAT-APL-20111117-00222

FCC APPLICATION FOR SPACE AND EARTH STATION:MOD OR AMD – MAIN FORM	FCC Use Only
FCC 312 MAIN FORM FOR OFFICIAL USE ONLY	

APPLICANT INFORMATION

Enter a description of this application to identify it on the main menu:
Anik F3 pressurant waiver (Nov 2011)

1-8. Legal Name of Applicant			
Name:	Telesat Canada	Phone Number:	9086984882
DBA Name:		Fax Number:	
Street:	135 Routes 202/206	E-Mail:	rcondurso@telesat.com
City:	Bedminster	State:	
Country:	USA	Zipcode:	-
Attention:	Mr Robert Conurso		

Attachment to Grant
IBFS File Nos. SAT-PPL-20110630-00123 and
SAT-APL-20111117-00222
Call Sign: S2703

The Petition for Declaratory Ruling filed by Telesat Canada (Telesat), IBFS File Nos. SAT-PPL-20110630-00123 and SAT-APL-20111117-00222, to add the Ka-band payload of the ANIK F3 space station to the Commission's Ka-band Permitted List at the 118.7° W.L. orbital location is GRANTED. ANIK F3 is licensed by Canada. Accordingly, each U.S. licensed earth station with "ALSAT" designated as a point of communication is granted authority to provide Fixed-Satellite Service (FSS) in the 29.4-29.9 GHz (Earth-to-space) and the 19.7-20.2 GHz (space-to-Earth) frequency bands to, from, or within the United States, by accessing ANIK F3 (Call Sign S2703) at the 118.7° W.L. orbital location.¹ These operations must be in accordance with the terms, conditions, and technical specifications set forth in Telesat's Petition for Declaratory Ruling, the technical specifications in the earth station authorizations, the Federal Communications Commission's rules not waived herein, and are subject to the following conditions:

1. This grant does not provide authority for any Direct-to-Home service, Direct Broadcast Satellite Service, or Satellite Digital Audio Radio Service to, from, or within the United States.
2. Communications between ALSAT-designated earth stations and the ANIK F3 space station shall be in compliance with all existing and future space station coordination agreements reached between Canada and other administrations.
3. Telesat's request for waiver of Section 25.283(c) is granted. Section 25.283(c) requires discharge of all stored energy sources when a space station is retired from service. ANIK F3 is an EADS Astrium E3000 series satellite, which does not completely discharge all stored energy at end of life. ANIK F3's chemical propulsion tanks will be depleted upon spacecraft disposal at mission completion. However, a helium pressurant tank, which was isolated from the fuel system shortly after launch of the spacecraft on April 9, 2007, will retain a total mass of 1.56 kg of helium within a volume of 0.179 cubic meters at the end of life. The information submitted by Telesat is not sufficient to support a finding that the underlying purpose of Section 25.283(c) is served by sealing the helium tank without completely venting it. Nevertheless, we grant Telesat a partial waiver of the rule. Compliance with Section 25.283(c) would require direct retrieval of the spacecraft or launching a servicing mission to the spacecraft, which is not practicable at this time. This action is without prejudice to possible future licensing decisions in connection with other spacecraft of the same manufacturing series.
4. The 29.25-29.5 GHz band is designated for uplinks for FSS systems using geostationary satellites and for feeder uplinks for Mobile-Satellite Service systems using non-geostationary orbit satellites on a co-primary basis. ANIK F3's operations in the 29.4-29.5 GHz frequency band must comply with Section 25.258 of the Commission's rules, 47 C.F.R. § 25.258.
5. The power flux-density (pfd) at the Earth's surface produced by the emissions from the ANIK F3 space station for all atmospheric conditions, and for all methods of modulation in the 19.7-20.2 GHz frequency band (space-to-Earth) must not exceed -119.6 dBW/m²/MHz at any angle of arrival. If ANIK F3 operates at a pfd value of -119.6 dBW/m²/MHz, it will also meet the pfd limits contained in 47 C.F.R. §§ 25.138(a)(6).

¹ The International Bureau Filing System generated call sign S2829 in connection with Telesat's petition. We have changed the call sign to S2703, which is the call sign associated with ANIK F3. See Telesat Canada, *Order*, 22 FCC Rcd 588 (Int'l Bur. 2007) (IBFS File No. SAT-PPL-20060516-00061).

Attachment to Grant
IBFS File Nos. SAT-PPL-20110630-00123 and
SAT-APL-20111117-00222
Call Sign: S2703

6. Telesat must coordinate its space-to-Earth operations in the 19.7-20.2 GHz frequency band with U.S. Federal systems, including Federal operations to earth stations in foreign countries, in accordance with footnote US334 to the United States Table of Frequency Allocations, 47 C.F.R. § 2.106.

7. The ANIK F3 space station is added to the Ka-band Permitted List at 118.7° W.L. for the 29.4-29.9 GHz (Earth-to-space) and 19.7-20.2 GHz (space-to-Earth) frequency bands; however, until Telesat has completed coordination pursuant to Footnote US334 to the United States Table of Frequency Allocations, 47 C.F.R. § 2.106, and both the FCC and the National Telecommunications and Information Administration have approved the coordination, U.S.-licensed earth stations shall not communicate with the ANIK F3 space station in the 19.7-20.2 GHz frequency band. *See Revision of Part 25 Establishment of a Permitted List Procedure for Ka-band Space Stations, Declaratory Order, 25 FCC Rcd 1542 (2010).*

8. This grant of U.S. market access will terminate if the ANIK F3 space station is either removed from the 118.7° W.L. orbital location or ceases to operate. If either event occurs, ANIK F3 will also be removed from the Ka-band Permitted List. If Telesat wishes to provide service to Ka-band ALSAT earth stations in the United States from the 118.7° W.L. orbital location using another space station, it must file a new application for market access.

9. Telesat is afforded 30 days from the date of release of this action to decline the grant of market access as conditioned. Failure to respond within this period will constitute formal acceptance of the grant as conditioned.

10. This action is taken pursuant to Sections 303(r), 308, 309, and 310 of the Communications Act of 1934, as amended, 47 U.S.C. §§ 303(r), 308, 309, 310, and Sections 0.261 and 25.137(c) of the Commission's rules, 47 C.F.R. §§ 0.261, 25.137(c), and is effective immediately. Petitions for reconsideration under Section 1.106 of the Commission's rules or applications for review under Section 1.115 of the Commission's rules, 47 C.F.R. §§ 1.106, 1.115, may be filed within 30 days of the public notice indicating that this action was taken.

- corrected -



File # SAT-PPL-20110630-00123 (see SAT-APL-20111117-00222)
Call Sign S2703 Grant Date 4/11/2012
(or other identifier)
Term Dates
From — To: —
Approved: Fern J. Garmulnek

9-16. Name of Contact Representative

Name:	Joseph A. Godles	Phone Number:	202-429-4900
Company:	Goldberg Godles Wiener & Wright	Fax Number:	202-429-4912
Street:	1229 19th Street, NW	E-Mail:	jgodles@g2w2.com
City:	Washington	State:	DC
Country:	USA	Zipcode:	20036-2413
Attention:		Relationship:	Legal Counsel

CLASSIFICATION OF FILING

17. Choose the button next to the classification that applies to this filing for both questions a. and b. Choose only one for 17a and only one for 17b.

- a1. Earth Station
- a2. Space Station

- (N/A) b1. Application for License of New Station
- (N/A) b2. Application for Registration of New Domestic Receive-Only Station
- b3. Amendment to a Pending Application
- b4. Modification of License or Registration
- b5. Assignment of License or Registration
- b6. Transfer of Control of License or Registration
- b7. Notification of Minor Modification
- (N/A) b8. Application for License of New Receive-Only Station Using Non-U.S. Licensed Satellite
- (N/A) b9. Letter of Intent to Use Non-U.S. Licensed Satellite to Provide Service in the United States
- (N/A) b10. Other (Please specify)
- (N/A) b11. Application for Earth Station to Access a Non-U.S. satellite Not Currently Authorized to Provide the Proposed Service in the Proposed Frequencies in the United States
- (N/A) b12. Application for Database Entry
- b13. Amendment to a Pending Database Entry Application
- b14. Modification of Database Entry

<p>17c. Is a fee submitted with this application?</p> <p><input 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).</p> <p><input type="radio"/> Governmental Entity <input type="radio"/> Noncommercial educational licensee</p> <p><input checked="" type="radio"/> Other (please explain): Petition for Declaratory Ruling – no fee required</p>	
<p>17d.</p> <p>Fee Classification</p>	
<p>18. If this filing is in reference to an existing station, enter:</p> <p>(a) Call sign of station:</p>	<p>19. If this filing is an amendment to a pending application enter both fields, if this filing is a modification please enter only the file number:</p> <p>(a) Date pending application was filed: 06/30/2011</p> <p>(b) File number: SATPPL2011063000123</p>

TYPE OF SERVICE

<p>20. NATURE OF SERVICE: This filing is for an authorization to provide or use the following type(s) of service(s): Select all that apply:</p> <p><input checked="" type="checkbox"/> a. Fixed Satellite <input type="checkbox"/> b. Mobile Satellite <input type="checkbox"/> c. Radiodetermination Satellite <input type="checkbox"/> d. Earth Exploration Satellite <input type="checkbox"/> e. Direct to Home Fixed Satellite <input type="checkbox"/> f. Digital Audio Radio Service <input type="checkbox"/> g. Other (please specify)</p>	
<p>21. STATUS: Choose the button next to the applicable status. Choose only one.</p> <p><input type="radio"/> Common Carrier <input checked="" type="radio"/> Non-Common Carrier</p>	<p>22. If earth station applicant, check all that apply.</p> <p><input type="checkbox"/> Using U.S. licensed satellites <input type="checkbox"/> Using Non-U.S. licensed satellites</p>
<p>23. If applicant is providing INTERNATIONAL COMMON CARRIER service, see instructions regarding Sec. 214 filings. Choose one. Are these facilities:</p> <p><input type="radio"/> Connected to a Public Switched Network <input type="radio"/> Not connected to a Public Switched Network <input checked="" type="radio"/> N/A</p>	
<p>24. FREQUENCY BAND(S): Place an 'X' in the box(es) next to all applicable frequency band(s).</p> <p><input checked="" type="checkbox"/> a. C-Band (4/6 GHz) <input checked="" type="checkbox"/> b. Ku-Band (12/14 GHz) <input checked="" type="checkbox"/> c. Other (Please specify upper and lower frequencies in MHz.) Frequency Lower: Frequency Upper: (Please specify additional frequencies in an attachment)</p>	

TYPE OF STATION

25. CLASS OF STATION: Choose the button next to the class of station that applies. Choose only one.

- a. Fixed Earth Station
- b. Temporary-Fixed Earth Station
- c. 12/14 GHz VSAT Network
- d. Mobile Earth Station
- e. Geostationary Space Station
- f. Non-Geostationary Space Station
- g. Other (please specify)

26. TYPE OF EARTH STATION FACILITY:

- Transmit/Receive Transmit-Only Receive-Only N/A

"For Space Station applications, select N/A."

PURPOSE OF MODIFICATION

27. The purpose of this proposed modification is to: (Place an 'X' in the box(es) next to all that apply.)

- a -- authorization to add new emission designator and related service
- b -- authorization to change emission designator and related service
- c -- authorization to increase EIRP and EIRP density
- d -- authorization to replace antenna
- e -- authorization to add antenna
- f -- authorization to relocate fixed station
- g -- authorization to change frequency(ies)
- h -- authorization to add frequency
- i -- authorization to add Points of Communication (satellites & countries)
- j -- authorization to change Points of Communication (satellites & countries)
- k -- authorization for facilities for which environmental assessment and radiation hazard reporting is required
- l -- authorization to change orbit location
- m -- authorization to perform fleet management
- n -- authorization to extend milestones
- o -- Other (Please specify)

ENVIRONMENTAL POLICY

28. Would a Commission grant of any proposal in this application or amendment have a significant environmental impact as defined by 47 CFR 1.1307? If YES, submit the statement as required by Sections 1.1308 and 1.1311 of the Commission's rules, 47 C.F.R. 1.1308 and 1.1311, as an exhibit to this application. A Radiation Hazard Study must accompany all applications for new transmitting facilities, major modifications, or major amendments. Yes No

ALIEN OWNERSHIP Earth station applicants not proposing to provide broadcast, common carrier, aeronautical en route or aeronautical fixed radio station services are not required to respond to Items 30–34.

29. Is the applicant a foreign government or the representative of any foreign government?	<input type="radio"/> Yes <input checked="" type="radio"/> No
30. Is the applicant an alien or the representative of an alien?	<input checked="" type="radio"/> Yes <input type="radio"/> No <input type="radio"/> N/A
31. Is the applicant a corporation organized under the laws of any foreign government?	<input checked="" type="radio"/> Yes <input type="radio"/> No <input type="radio"/> N/A
32. Is the applicant a corporation of which more than one-fifth of the capital stock is owned of record or voted by aliens or their representatives or by a foreign government or representative thereof or by any corporation organized under the laws of a foreign country?	<input checked="" type="radio"/> Yes <input type="radio"/> No <input type="radio"/> N/A

33. Is the applicant a corporation directly or indirectly controlled by any other corporation of which more than one-fourth of the capital stock is owned of record or voted by aliens, their representatives, or by a foreign government or representative thereof or by any corporation organized under the laws of a foreign country?

Yes No N/A

34. If any answer to questions 29, 30, 31, 32 and/or 33 is Yes, attach as an exhibit an identification of the aliens or foreign entities, their nationality, their relationship to the applicant, and the percentage of stock they own or vote.

Response to Q30–34

BASIC QUALIFICATIONS

35. Does the Applicant request any waivers or exemptions from any of the Commission's Rules?
If Yes, attach as an exhibit, copies of the requests for waivers or exceptions with supporting documents.

Yes No

Request for Waiver

36. Has the applicant or any party to this application or amendment had any FCC station authorization or license revoked or had any application for an initial, modification or renewal of FCC station authorization, license, or construction permit denied by the Commission? If Yes, attach as an exhibit, an explanation of circumstances.

Yes No

Response to Q36

37. Has the applicant, or any party to this application or amendment, or any party directly or indirectly controlling the applicant ever been convicted of a felony by any state or federal court? If Yes, attach as an exhibit, an explanation of circumstances.

Yes No

38. Has any court finally adjudged the applicant, or any person directly or indirectly controlling the applicant, guilty of unlawfully monopolizing or attempting unlawfully to monopolize radio communication, directly or indirectly, through control of manufacture or sale of radio apparatus, exclusive traffic arrangement or any other means or unfair methods of competition? If Yes, attach as an exhibit, an explanation of circumstances

Yes No

39. Is the applicant, or any person directly or indirectly controlling the applicant, currently a party in any pending matter referred to in the preceding two items? If yes, attach as an exhibit, an explanation of the circumstances.

Yes No

40. If the applicant is a corporation and is applying for a space station license, attach as an exhibit the names, address, and citizenship of those stockholders owning a record and/or voting 10 percent or more of the Filer's voting stock and the percentages so held. In the case of fiduciary control, indicate the beneficiary(ies) or class of beneficiaries. Also list the names and addresses of the officers and directors of the Filer.

41. By checking Yes, the undersigned certifies, that neither applicant nor any other party to the application is subject to a denial of Federal benefits that includes FCC benefits pursuant to Section 5301 of the Anti-Drug Act of 1988, 21 U.S.C. Section 862, because of a conviction for possession or distribution of a controlled substance. See 47 CFR 1.2002(b) for the meaning of "party to the application"; for these purposes.

Yes No

42a. Does the applicant intend to use a non-U.S. licensed satellite to provide service in the United States? If Yes, answer 42b and attach an exhibit providing the information specified in 47 C.F.R. 25.137, as appropriate. If No, proceed to question 43.

Yes No

42b. What administration has licensed or is in the process of licensing the space station? If no license will be issued, what administration has coordinated or is in the process of coordinating the space station?Canada

43. Description. (Summarize the nature of the application and the services to be provided). (If the complete description does not appear in this box, please go to the end of the form to view it in its entirety.)

Applicant hereby requests partial waiver of Section 25.283(c) of the Commission's rules to the extent that the rule requires Telesat to vent at end-of-life any remaining helium pressurant on its Anik F3 spacecraft.

43a. Geographic Service Rule Certification

By selecting A, the undersigned certifies that the applicant is not subject to the geographic service or geographic coverage requirements specified in 47 C.F.R. Part 25.

A

By selecting B, the undersigned certifies that the applicant is subject to the geographic service or geographic coverage requirements specified in 47 C.F.R. Part 25 and will comply with such requirements.

B

By selecting C, the undersigned certifies that the applicant is subject to the geographic service or geographic coverage requirements specified in 47 C.F.R. Part 25 and will not comply with such requirements because it is not feasible as a technical matter to do so, or that, while technically feasible, such services would require so many compromises in satellite design and operation as to make it economically unreasonable. A narrative description and technical analysis demonstrating this claim are attached.

C

CERTIFICATION

The Applicant waives any claim to the use of any particular frequency or of the electromagnetic spectrum as against the regulatory power of the United States because of the previous use of the same, whether by license or otherwise, and requests an authorization in accordance with this application. The applicant certifies that grant of this application would not cause the applicant to be in violation of the spectrum aggregation limit in 47 CFR Part 20. All statements made in exhibits are a material part hereof and are incorporated herein as if set out in full in this application. The undersigned, individually and for the applicant, hereby certifies that all statements made in this application and in all attached exhibits are true, complete and correct to the best of his or her knowledge and belief, and are made in good faith.

44. Applicant is a (an): (Choose the button next to applicable response.)

- Individual
- Unincorporated Association
- Partnership
- Corporation
- Governmental Entity
- Other (please specify)

45. Name of Person Signing
Chris DiFrancesco

46. Title of Person Signing
Vice President & General Counsel

→

WILLFUL FALSE STATEMENTS MADE ON THIS FORM ARE PUNISHABLE BY FINE AND / OR IMPRISONMENT
(U.S. Code, Title 18, Section 1001), AND/OR REVOCATION OF ANY STATION AUTHORIZATION
(U.S. Code, Title 47, Section 312(a)(1)), AND/OR FORFEITURE (U.S. Code, Title 47, Section 503).

FCC NOTICE REQUIRED BY THE PAPERWORK REDUCTION ACT

The public reporting for this collection of information is estimated to average 2 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the required data, and completing and reviewing the collection of information. If you have any comments on this burden estimate, or how we can improve the collection and reduce the burden it causes you, please write to the Federal Communications Commission, AMD-PERM, Paperwork Reduction Project (3060-0678), Washington, DC 20554. We will also accept your comments regarding the Paperwork Reduction Act aspects of this collection via the Internet if you send them to PRA@fcc.gov. PLEASE DO NOT SEND COMPLETED FORMS TO THIS ADDRESS.

Remember – You are not required to respond to a collection of information sponsored by the Federal government, and the government may not conduct or sponsor this collection, unless it displays a currently valid OMB control number or if we fail to provide you with this notice. This collection has been assigned an OMB control number of 3060-0678.

THE FOREGOING NOTICE IS REQUIRED BY THE PAPERWORK REDUCTION ACT OF 1995, PUBLIC LAW 104-13, OCTOBER 1, 1995, 44 U.S.C. SECTION 3507.