

Approved by OMB
3060-0678

Date & Time Filed: Sep 19 2007 5:36:19:926PM
File Number: SAT-MOD-20070919-00129

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

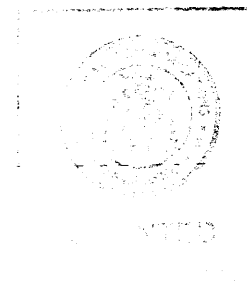
APPLICANT INFORMATION

Enter a description of this application to identify it on the main menu:

New ICO LOI Technical Mod Application

1-8. Legal Name of Applicant

Name:	New ICO Satellite Services G.P.	Phone Number:	425-828-8000
DBA Name:		Fax Number:	
Street:	2300 Carillon Point	E-Mail:	
City:	Kirkland	State:	WA
Country:	USA	Zipcode:	98033 -
Attention:	Dennis Schmitt		



SAT-MOD-20070919-00129
File # SAT-AMD-20071129-00166

Call Sign S2451 Grant Date 4/2/08
(or other identifier) Term Dates

From To

in/conditions

[Signature]
Policy Review Chief

New ICO Satellite Services G.P.
Applications to Modify its 2 GHz MSS Spectrum Reservation,
IBFS File Nos. SAT-MOD-20070919-00129, and SAT-AMD-20071129-00166
Attachment – Conditions of Authorization
Call Sign: S2651

April 2, 2008

New ICO Satellite Services G.P.'s (New ICO) applications, IBFS File Nos. SAT-MOD-20070919-00129 and SAT-AMD-20071129-00166, to modify its 2 GHz MSS Spectrum Reservation (Spectrum Reservation), are GRANTED and the Commission's licensing database will reflect these changes.¹ Accordingly, New ICO's Spectrum Reservation is modified to reflect operation of the ICO-G1 satellite at the 92.85° W.L. orbital location using the 2000-2020 and 2180-2200 MHz frequency bands, and the 29.25-30.0 GHz (space-to-Earth) and 18.55 -18.8/19.7-20.2 GHz (Earth-to-space) frequency bands for feeder link transmissions and for on-station Tracking, Telemetry, and Control (TT&C) transmissions at 29.9955 GHz and 29.9995 GHz (command), and 20.1965 and 20.1985 GHz (telemetry), subject to the terms of the Spectrum Reservation, as amended, the technical specifications set forth in its applications, the conditions set forth below, and the Commission's rules.

1. New ICO's request for a waiver of 47 C.F.R. § 25.210(i) is GRANTED. Section 25.210(i) requires space station antennas in the Fixed-Satellite Service to provide cross-polarization isolation such that the ratio of the on-axis co-polarization gain to the cross-polarization gain of the antenna in the assigned frequency band shall be at least 30 dB within its primary coverage area. The cross-polarization requirement serves to minimize the interference between adjacent satellites when both are carrying analog video signals with highly peaked spectra. New ICO states that its Ka-band feeder link beams for the ICO G1 satellite provide minimum cross-polarization isolation of 24 dB for the receive beam, and 27 dB for the transmit beam. It also states the minimum cross-polarization isolation of the Ka-band TT&C horn antennas is 23 dB for both the receive and transmit directions. New ICO states that its downlink cross-polarization shortfall will not significantly increase the noise floor of adjacent Ka-band satellites. Accordingly, we grant this waiver request with the condition that the operation of the ICO G1 satellite shall not cause more interference to U.S. services being provided by any authorized system that is two-degree spacing compliant than would be caused if the ICO G1 satellite complied with Section 25.210(i). Further, New ICO shall not claim protection against interference to its operations caused by U.S. services being provided by the two-degree spacing compliant satellites if such interference results from failure of ICO G1 to comply with Section 25.210(i) of the Commission's rules.

2. New ICO's request for a partial waiver of 47 C.F.R. § 25.114(d)(3) is GRANTED. Section 25.114(d)(3) requires applicants to provide the predicted space station antenna gain contour(s) for each transmit and each receive antenna beam and nominal orbital location requested. New ICO has provided a representative uplink spot beam and a representative downlink spotbeam. Because the information provided by New ICO its Schedule S Form is

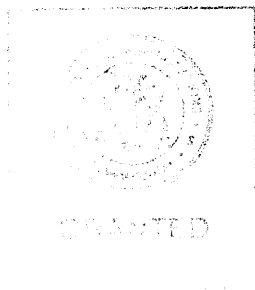
¹ The modification and amendment were placed on public notice and no comments were filed. See Policy Branch, Policy Branch Information, Satellite Space Applications Accepted for Filing, Report No. SAT-00485.

sufficient for us to determine whether the system meets the Commission's technical requirements, we grant New ICO's request for a partial waiver of Section 25.114(d)(3).

3. New ICO's request for partial waiver of 47 C.F.R. § 25.202(g) is DEFERRED. Section 25.202(g) requires applicants to conduct TT&C functions for U.S. domestic satellites at either or both edges of the allocated band(s) and to select frequencies, polarization, and coding that minimizes interference into other satellite networks and within one's own satellite system. New ICO proposes to use C-band frequencies between its satellite and a control station in the U.S. to transmit signals for transfer orbit and contingency operations. We will address requests for a waiver of Section 25.202(g) in the context of an earth station application that seeks authority to use C-band frequencies for its transfer orbit and contingency TT&C operations.

4. New ICO is afforded 30 days from the date of this action to decline the modifications to its Spectrum Reservation. Failure to respond within this period will constitute formal acceptance of the Spectrum Reservation as conditioned.

5. This action is issued pursuant to the Commission's rules on delegated authority, 47 C.F.R. § 0.261, and is effectively immediately. Petitions for reconsideration under Section 1.106 or applications for review under Section 1.115 of the Commission's rules, 47 C.F.R. §§ 1.106 and 1.115, may be filed within 30 days of the date of the public notice indicating that this action was taken.



w/conditions.

File # SAT MOD 20070919-00129
SAT ALID-20071129-00166

Call Sign 52051 Grant Date 4/2/08

(operator identifier)

Term Dates

For

Andrew J. Lee
Policy Branch Chief

9-16. Name of Contact Representative

Name:	Cheryl A. Tritt	Phone Number:	202-887-1510
Company:	Morrison & Foerster LLP	Fax Number:	202-887-0763
Street:	2000 Pennsylvania Ave., NW Suite 5500	E-Mail:	ctritt@mofo.com
City:	Washington	State:	DC
Country:	USA	Zipcode:	20006-
Attention:	Cheryl A. Tritt	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): Letter of Intent authorization</p>	
<p>17d.</p> <p>Fee Classification CWY – Space Station Amendment (Geostationary)</p>	
<p>18. If this filing is in reference to an existing station, enter:</p> <p>(a) Call sign of station: S2651</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: (b) File number: SATMOD2006110900137</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 type="checkbox"/> a. Fixed Satellite</p> <p><input checked="" type="checkbox"/> b. Mobile Satellite</p> <p><input type="checkbox"/> c. Radiodetermination Satellite</p> <p><input type="checkbox"/> d. Earth Exploration Satellite</p> <p><input type="checkbox"/> e. Direct to Home Fixed Satellite</p> <p><input type="checkbox"/> f. Digital Audio Radio Service</p> <p><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 checked="" 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</p> <p><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 checked="" 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 type="checkbox"/> a. C-Band (4/6 GHz) <input type="checkbox"/> b. Ku-Band (12/14 GHz)</p> <p><input checked="" type="checkbox"/> c. Other (Please specify upper and lower frequencies in MHz.)</p> <p>Frequency Lower: 2000 Frequency Upper: 2200 (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?

☐ Yes ☒ No

30. Is the applicant an alien or the representative of an alien?

☐ Yes ☐ No ☒ N/A

31. Is the applicant a corporation organized under the laws of any foreign government?

☐ Yes ☐ No ☒ 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?

☐ Yes ☐ No ☒ 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.

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

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

<p>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.</p>	<p><input type="radio"/> Yes <input checked="" type="radio"/> No</p>
<p>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</p>	<p><input type="radio"/> Yes <input checked="" type="radio"/> No</p>
<p>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.</p>	<p><input type="radio"/> Yes <input checked="" type="radio"/> No</p>
<p>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.</p>	

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? United Kingdom

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.)

Modify Letter of Intent authorization. See Exhibit 1.

Exhibit 1

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
Dennis Schmitt

46. Title of Person Signing
Director

-->

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).

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