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Approved by OMB
3060-0678

Date & Time Filed: May 11 2006 9:02:02:640AM
File Number: SAT-MOD-20060511-00059

52680

TOTOC @ 83° W.L.

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:
Modification of TT&C Frequencies per license condition

1-8. Legal Name of Applicant

Name:	contactMEO Communications, LLC	Phone Number:	303-688-5162
DBA Name:		Fax Number:	303-660-4930
Street:	P.O. Box 348 2539 North Highway 67	E-Mail:	dmsat@aol.com
City:	Sedalia	State:	CO
Country:	USA	Zipcode:	80135 -
Attention:	David M. Drucker		

File # SAT-MOD-20060511-00059

Call Sign 52680 Grant Date June 29, 2006

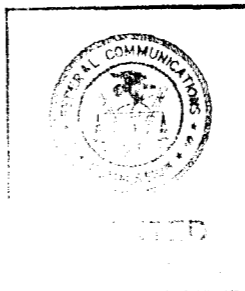
(or other identifier)

Term Dates see conditions

From _____ To: 74 of order

Approved: [Signature]

Policy Branch Chief



9-16. Name of Contact Representative

Name:	David Kane	Phone Number:	425.957.9238
Company:	Consultant	Fax Number:	425.865.9359
Street:	5396 176th Place SE	E-Mail:	dekane@alum.mit.edu
City:	Bellevue	State:	WA
Country:	USA	Zipcode:	98006-
Attention:	David Kane	Relationship:	Engineer

CLASSIFICATION OF FILING

<p>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.</p> <p><input type="radio"/> a1. Earth Station</p> <p><input checked="" type="radio"/> a2. Space Station</p>	<p>(N/A) b1. Application for License of New Station</p> <p>(N/A) b2. Application for Registration of New Domestic Receive-Only Station</p> <p><input type="radio"/> (N/A) b3. Amendment to a Pending Application</p> <p><input checked="" type="radio"/> (N/A) b4. Modification of License or Registration</p> <p>b5. Assignment of License or Registration</p> <p>b6. Transfer of Control of License or Registration</p> <p><input type="radio"/> (N/A) b7. Notification of Minor Modification</p> <p>(N/A) b8. Application for License of New Receive-Only Station Using Non-U.S. Licensed Satellite</p> <p>(N/A) b9. Letter of Intent to Use Non-U.S. Licensed Satellite to Provide Service in the United States</p> <p><input type="radio"/> (N/A) b10. Other (Please specify)</p>
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17c. Is a fee submitted with this application?

- If Yes, complete and attach FCC Form 159. If No, indicate reason for fee exemption (see 47 C.F.R. Section 1.1114).
- Governmental Entity Noncommercial educational licensee
- Other (please explain):

17d.

Fee Classification BFY – Space Station Modification (Geostationary)

18. If this filing is in reference to an existing station, enter:

(a) Call sign of station:
S2680

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:

(a) Date pending application was filed:

(b) File number:

SATLOA2004032200234

TYPE OF SERVICE

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:	
<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)	
21. STATUS: Choose the button next to the applicable status. Choose only one. <input type="radio"/> Common Carrier <input checked="" type="radio"/> Non-Common Carrier	22. If earth station applicant, check all that apply. <input type="checkbox"/> Using U.S. licensed satellites <input type="checkbox"/> Using Non-U.S. licensed satellites
23. If applicant is providing INTERNATIONAL COMMON CARRIER service, see instructions regarding Sec. 214 filings. Choose one. Are these facilities: <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	
24. FREQUENCY BAND(S): Place an 'X' in the box(es) next to all applicable frequency band(s). <input type="checkbox"/> a. C-Band (4/6 GHz) <input type="checkbox"/> b. Ku-Band (12/14 GHz) <input checked="" type="checkbox"/> c. Other (Please specify upper and lower frequencies in MHz.) Frequency Lower: 17700 Frequency Upper: 30000 (Please specify additional frequencies in an attachment)	

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? Yes No
If Yes, attach as an exhibit, copies of the requests for waivers or exceptions with supporting documents.

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

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?

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.)

This is a modification application in response to a condition to Applicant's license. See Order and Authorization in the Matter of contactMEO Communications, LLC, For Authority to Launch and Operate a Non-Geostationary Orbit Fixed-Satellite System in the Ka-band Frequencies, DA06-864, released April 14, 2006, at para. 67. The condition requires

S2680 121W

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
David M. Drucker

46. Title of Person Signing
Manager

→

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-PER, 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 jboley@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.

43. Description. (Summarize the nature of the application and the services to be provided).

This is a modification application in response to a condition to Applicant's license. See Order and Authorization in the Matter of contactMEO Communications, LLC, For Authority to Launch and Operate a Non-Geostationary Orbit Fixed-Satellite System in the Ka-band Frequencies, DA06-864, released April 14, 2006, at para. 67. The condition requires specification of Ka-band frequencies for TT&C operations.

Before the
FEDERAL COMMUNICATIONS COMMISSION
Washington, D.C. 20554

In the Matter of _____)	File No. _____
_____)	File Nos. _____
contactMEO Communications, LLC)	SAT-LOA-19971222-00222
_____)	SAT-LOA-20040322-00234/35/36/37
Application for Authority)	SAT-AMD-20040719-00141
To Launch and Operate a)	SAT-AMD-20040322-00057
Non-Geostationary Orbit)	SAT-AMD-20031030-00317
Fixed Satellite System in)	
The Ka-Band _____)	Call Signs: S2346, S2680, S2681, S2682, S2683

MODIFICATION

In Order and Authorization, in the Matter of contactMEO Communications, LLC,

*For Authority to Launch and Operate a Non-Geostationary Orbit Fixed-Satellite System in the Ka-band Frequencies, DA 06-864, released April 14, 2006, (“License Order”) the Commission granted contactMEO Communications, LLC (“@contact”) authority for a satellite system consisting of three non-geostationary satellite orbit (“NGSO”) satellites and four geostationary satellite orbit (“GSO”) satellites to provide fixed-satellite service in the Ka-band. It conditioned the grant, *inter alia*, on submission of a modification application specifying the exact system Ka-band frequencies to be used for Tracking, Telemetry and Command (“TT&C”) operations in accordance with 47 C.F.R. § 25.202(g). See License Order at paras. 41, 67.*

The attached minor modification applications, filed pursuant to 25 C.F.R. § 25.117 with Form 312 and Schedule S for each of the five Call Signs covered by

the License Order, contain the exact in-band Ka-band frequencies that will be utilized for TT&C.

All other technical information associated with the referenced file numbers remains unchanged

and is incorporated by reference as necessary.

Respectfully submitted,

contactMEO Communications, LLC

By: _____ /s/

David M. Drucker,
Manager
contactMEO Communications, LLC
2539 N. Highway 67
Sedalia, CO 80135
303.688.5162

May 11, 2006

James M. Talens, Counsel
6017 Woodley Road
McLean, VA 22101
703.241.1144

TT&C CHARACTERISTICS OF THE
@CONTACT SATELLITE NETWORK

This submission is in response to the Commission's request for specific TT&C frequencies in its Order and Authorization, DA 06-864, granting authority to contactMEO Communications, LLC. All other relevant technical information is already on file with the Commission and to the extent necessary is included herein by reference.

TT&C will be provided for each satellite as summarized below. Four 2 MHz segments within the service bands (29.097-29.099 GHz, 28.601-28.603 GHz, 19.297-19.299 GHz, and 18.801-18.803 GHz) are identified for TT&C operations to facilitate coordination and avoid interference. These can alternately be used for normal on-orbit operation or transfer-orbit and on-orbit emergency mode. Normal on-orbit TT&C will be provided through the high-gain COM antennas. The transfer orbit and on-orbit emergency TT&C will be provided via omnidirectional antennas. These are denoted as beams "TLMO" and "CMDO" in the Schedule S submission for each Call sign.

TT&C Subsystem Arrangements

<i>Parameter s</i>	Transfer Orbits and On orbit Emergency Modes		On Orbit Operation	
	Uplink	Downlink	Uplink	Downlink
Center Frequency • Bandwidth • Polarization	29.098 or 28.602 GHz • 2 MHz • RHCP	19.298 or 18.802 GHz 2 MHz • LHCP	29.098 or 28.602 GHz • 2 MHz • RHCP	19.298 or 18.802 GHz • 2 MHz • LHCP
• Emission	• 4K00F9D	• 4K00F9D	• 1M00G7D	• 2M00G7D
Transmit EIRP • Tx power into ant. (W)	90 dBWi (E/S) • 129 W • 68.9 dBi	-3dBWi (Satellite) • 1 W • -3 dBi	76 dBWi (E/S) • 50.5 W • 59 dBi	42 dBWi (satellite) • 0.25W • 48 dBi

• Tx antenna gain (dBi)				
Receive G/T	-32.6 dB/k (satellite)	39.7 dB/k (E/S)	19.5 dB/k (satellite)	28.9 dB/k (E/S)
• System noise temp (k)	• 1154 k	• 363 k	• 504 k	• 448 k
• Rx antenna gain (dBi)	• -2 dBi	• 65.3 dBi	• 46.5 dBi	• 55.5 dBi
Modulation	FM	BPSK	BPSK	BPSK

ENGINEERING CERTIFICATE

I hereby certify under penalty of perjury that I am the technically qualified person responsible for preparation of the engineering information contained in the foregoing amendment application. I am familiar with the Commission's Rules concerning Part 25 and satellite space station matters. I have prepared or reviewed the engineering information contained in this application and the statements of fact made there are true and correct to the best of my personal knowledge.

/s/

David E. Kane
5396 176th Pl. SE
Bellevue, WA 98006
(425) 957-9238
Engineer

Date: May 7, 2006