Date & Time Filed: Sep 29 2013 10:27:34:096PM File Number: SES-MOD-INTR2013-02142

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:

FCC Call Sign E940537 − Application to operate additional 50 kHz uplink centered at 150.025 MHz

Legal Name of Ap	pplicant		
Name:	ORBCOMM License Corp.	Phone Number:	585-461-3018
DBA Name:		Fax Number:	585-461-3476
Street:	395 West Passaic Street	E–Mail:	sonnenfeldt.walter@orbcomm.com
	Suite 325		
City:	Rochelle Park	State:	NJ
Country:	USA	Zipcode:	07662 -3016
Attention:	Walter H Sonnenfeldt		

9–16. Name of Contact Representative

Name: Walter H. Sonnenfeldt **Phone Number:** 585–461–3018

Company: ORBCOMM License Corp. **Fax Number:** 585–461–3476

Street: 395 West Passaic Street E–Mail: sonnenfeldt.walter@orbcomm.com

Suite 325

City: Rochelle Park State: NJ

Country: USA **Zipcode:** 07662–3016

Attention: Relationship:

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.	(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
a1. Earth Station a2. Space Station	 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
17c. Is a fee submitted with this application of the submitted with th	159. If No, indicate reason for fee exemption (see 47 C.F.R.Section 1.1114).
17d. Fee Classification CGX – Fixed Satellite T Station	Transmit/Receive Earth

18. If this filing is in reference to an existing station, enter:	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) Call sign of station:	(a) Date pending application	was filed:	(b) File number:		
E940537			SESRWL2005041200440		
TYPE OF SERVICE					
20. NATURE OF SERVICE: This filing is	for an authorization to provide	or use the followi	ing type(s) of service(s): Select all that apply:		
a. Fixed Satellite					
b. Mobile Satellite					
c. Radiodetermination Satellite					
d. Earth Exploration Satellite					
e. Direct to Home Fixed Satellite					
f. Digital Audio Radio Service					
g. Other (please specify)					
21. STATUS: Choose the button next to th	e applicable status. Choose	22. If earth station	applicant, check all that apply.		
only one.	[Wing U.S. lie	censed satellites		
Common Carrier Non–Commo	on Carrier	Using Non–U	J.S. licensed satellites		
23. If applicant is providing INTERNATIO	NAL COMMON CARRIER sei	vice, see instruct	tions regarding Sec. 214 filings. Choose one. Are these		

O Connected to a Public Switched Network Not connected to a Public Switched Network N/A

facilities:

24. F	FREQUENCY BAND(S): Place an	'X' in the box(es) next to all	applicable frequency band(s).
		Band (12/14 GHz)	
X c.0	Other (Please specify upper and lo	wer frequencies in MHz.)	
	Frequency Lower: 137	Frequency Upper: 401	(Please specify additional frequencies in an attachment)
TYPE	OF STATION		
25. CL	ASS OF STATION: Choose the bu	atton next to the class of statio	n that applies. Choose only one.
a . 1	Fixed Earth Station		
o b. '	Temporary–Fixed Earth Station		
О с.	12/14 GHz VSAT Network		
O d.	Mobile Earth Station		
6. e.	Geostationary Space Station		
O f. 1	Non-Geostationary Space Station		
O g.	Other (please specify)		
26. TY	PE OF EARTH STATION FACIL		
● Tra	nsmit/Receive	only Receive-Only	O N/A
"For Sp	pace 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 & Double
j — authorization to change Points of Communication (satellites & Double of Communication (satellites & Doub
k — authorization for facilities for which environmental assessment and
radiation hazard reporting is required
1 — authorization to change orbit location
m — authorization to perform fleet management
n — authorization to extend milestones
o — Other (Please specify)

ENVIRONMENTAL POLICY

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.						
ALIEN OWNERSHIP Earth station applicants not proposing to provide broadcast, common carrier, aeronaeronautical fixed radio station services are not required to respond to Items 30–34.	autic	al en	rou	te or		
29. Is the applicant a foreign government or the representative of any foreign government?	0	Yes	•	No		
30. Is the applicant an alien or the representative of an alien?	0	Yes	•	No	0	N/A
31. Is the applicant a corporation organized under the laws of any foreign government?	0	Yes	•	No	0	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?	0	Yes	0	No	•	N/A

O Yes O No

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

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?	O Yes O	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.	o 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 explination of circumstances.	O 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 explination 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 exhinit, 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	O 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, we coordinated or is in the process of coordinating the space station?	hat administr	ation has

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.)

Request for authorization to operate an additional 50 kHz uplink channel centered at 150.025 MHz for feederlink communications with all satellites in the ORBCOMM non-geostationary mobile satellite service system authorized under FCC Call Sign S2103, using the same technical parameters as currently authorized for the existing 149.61 MHz (center)

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.	O 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.	o 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.

O Individual		
Unincorporated Association		
O Partnership		
Governmental Entity		
Other (please specify)		
45. Name of Person Signing	46. Title of Person Signing	
45. Name of Person Signing Marc J. Eisenberg	46. Title of Person Signing Chief Executive Officer	

SATELLITE EARTH STATION AUTHORIZATIONS FCC Form 312 – Schedule B:(Technical and Operational Description) FOR OFFICIAL USE ONLY

Location of Earth Station Site E1: Site Identifier: St. Johns, AZ GES E5. Call Sign: E940537 E2: Contact Name John Stolte E6. Phone 703-433-6300 Number: E3. Street: State Route 61 E7. City: St. Johns Mile Marker 376 E8. County: Apache E9. Zip Code E4. State AZ85936 E10. Area of Operation: **CONUS** 34 °27 '21.0 "N E11. Latitude: E12. Longitude: 109 °33 '17.0 "W E13. Lat/Lon Coordinates are: NAD-27 **⋒** NAD-83 N/A E14. Site Elevation (AMSL): 1951.0 meters

E15. If the proposed antenna(s) operate in the Fixed Satellite Service (FSS) with geostationary satellites, do(es) the proposed antenna(s) comply with the antenna gain patterns specified in Section 25.209(a) and (b) as demonstrated by the manufacturer's qualification measurement? If NO, provide as a technical analysis showing compliance with two–degree spacing policy.

E16. If the proposed antenna(s) do not operate in the Fixed Satellite S Satellite Service (FSS) with non–geostationary satellites, do(es) the pr gain patterns specified in Section 25.209(a2) and (b) as demonstrated by measurements?	roposed antenna(s) comply with the antenna	⊚ Yes	O No	O N/A
E17. Is the facility operated by remote control? If YES, provide the loc point.	cation and telephone number of the control	Yes	٥	No
E18. Is frequency coordination required? If YES, attach a frequency co	pordination report as	O Yes	•	No
E19. Is coordination with another country required? If YES, attach the coordination contours as	name of the country(ies) and plot of	• Yes	0	No
E20. FAA Notification – (See 47 CFR Part 17 and 47 CFR part 25. have you attached a copy of a completed FCC Form 854 and/or the FA the structure to aviation? FAILURE TO COMPLY WITH 47 CFR PARTS 17 AND 25 WILL APPLICATION.	A's study regarding the potential hazard of	O Yes	•	No
POINTS OF COMMUNICATION				
Satellite Name: OTHER OTHER If you selected OTHER, please	enter the following:			
E21. Common Name: ORBCOMM (All Sats)	E22. ITU Name: LEOTELCOM-1			
E23. Orbit Location: NGSO	E24. Country: USA			
POINTS OF COMMUNICATION (Destination Points)	-			
E25. Site Identifier: St. Johns, AZ GES				

E26. Common Name: ORBCOMM (All Sats)	E27. Country: USA

ANTENNA

Site ID	E28. Antenna Id	E29. Quantity	E30. Manufacturer		Size <meters></meters>	E41/42. Antenna Gain Transmint and/or Recieve (dBi atGHz)	
St. Johns, AZ GES	1	2	D&M CHV TECH. INC.	987–1101	5.5	17.0 dBi at .015	

- 1	d	Diameter		, ,	Height Above Ground Level	Input Power at antenna flange	E39. Maximum Antenna Height Above Rooftop (meters)	EIRP for al
1		0.0/0.0	13.0	1964.0	0.0	0.0	0.0	40.0

FREQUENCY

E28. Antenna Id	E43/44. Frequency Bands (MHz)			Designator	EIRP per Carrier (dBW)	E49. Maximum ERIP Density per Carrier (dBW/4kHz)
1	137.0 401	R	Left and Right Circular	50K0G7D	0.0	0.0

E50. Modulation entirety.)	and Service	es (If th	e complete description	on does not appear ir	n this box, please go	to the end of the form	to view it in its
SDPSK/FDMA							
I	150	150.05	Т	Left and Right Circular	50K0G7D	40.0	29.0
E50. Modulation entirety.) SDPSK/FDMA		es (If th	ne complete description	on does not appear ir	n this box, please go	to the end of the form	to view it in its

FREQUENCY COORDINATION

E28. Antenna Id		E52/53. Frequency Limits(MHz)	Range of Satellite Arc Eastern/West	Station Azimuth Angle	Antenna Elevation Angle Eastern Limit	E58. Earth Station Azimuth Angle Western Limit	E59. Antenna Elevation Angle Western Limit	E60. Maximum EIRP Density toward the Horizon (dBW/4kHz)
1	Non– Geostationary	137 MHz 401 MHz	0.0/360.0	0.0	5.0	0.0	5.0	29.0

REMOTE CONTROL POINT LOCATION

E61. Call Sign NOTE: Please enter the callsign of the contro callsign for which this application is being filed.	E66. Phone Number 703–433–6300			
E62. Street Address 22265 Pacific Boulevard Suite 200	'			
E63. City Dulles	E68. County Loudon		E67/68. State/Country VA/ USA	E64. Zip Code 20166

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.

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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).

Request for authorization to operate an additional 50 kHz uplink channel centered at 150.025 MHz for feederlink communications with all satellites in the ORBCOMM non-geostationary mobile satellite service system authorized under FCC Call Sign S2103, using the same technical parameters as currently authorized for the existing 149.61 MHz (center) 50 kHz uplink channel. Correction of station geographic coordinates is also provided.