Date & Time Filed: Jul 12 2016 5:17:48:530PM File Number: SES-MOD-INTR2016-01601

FCC APPLICATION FOR SPACE AND EARTH STATION:MOD OR AMD – MAIN FORM

FCC 312 MAIN FORM FOR OFFICIAL USE ONLY

APPLICANT INFORMATION

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

MOD to move 1.2m Manassas 070516

1–8. Legal Name of Applicant

Name: O3b Limited **Phone Number:** 202–813–4026

DBA Fax Number:

Name:

Street: 900 17th Street, NW, #300 **E–Mail:** suzanne.malloy@o3bnetworks.

com

City: Washington State:

Country: USA Zipcode: -

Attention: Ms Suzanne Malloy

9–16. Name of Contact Representative

Name: Joseph A. Godles Esq. Phone Number: 202–429–4900

Company: Goldberg, Godles, Wiener & **Fax Number:** 202–429–4912

Wright LLP

Street: 1229 Nineteenth St. N.W. E–Mail: jgodles@g2w2.com

City: Washington State: DC

Country: USA Zipcode: 20036–

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.	(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 pendir modification please enter only the file numb	ng application enter both fields, if this filing is a er:
(a) Call sign of station:	(a) Date pending application was filed:	(b) File number:
E150018		SESLIC2015031000138
TYPE OF SERVICE		
20. NATURE OF SERVICE: This filing i	s for an authorization to provide or use the follow	wing type(s) of service(s): Select all that apply:
- Circal Satellita		
a. Fixed Satellite		
b. Mobile Satellite		
c. Radiodetermination Satellite		
January Control Contro		

L	
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 the applicable status. Choose only one.	22. If earth station applicant, check all that apply. Using U.S. licensed satellites
Common Carrier Non–Common Carrier	Using Non–U.S. licensed satellites
23. If applicant is providing INTERNATIONAL COMMON CARRIER s facilities:	service, see instructions regarding Sec. 214 filings. Choose one. Are these
Connected to a Public Switched Network Not connected to a	Public Switched Network N/A

24	FREQUENCY BAND(S): Place an 'X	' in the box(es) next to all applicab	le frequency hand(s)
	C-Band (4/6 GHz) b. Ku-Band	• • •	to frequency bund(b).
	Other (Please specify upper and lower		
	Frequency Lower: 17800.0000	Frequency Upper: 29100.0000	(Please specify additional frequencies in an attachment)
TYPE	OF STATION		
25. Cl	LASS OF STATION: Choose the butto	n next to the class of station that app	plies. Choose only one.
● a	. Fixed Earth Station		
O b	. Temporary–Fixed Earth Station		
_ c	. 12/14 GHz VSAT Network		
o d	. Mobile Earth Station		
e	. Geostationary Space Station		
o f	. Non-Geostationary Space Station		
O g	. Other (please specify)		
26. T	YPE OF EARTH STATION FACILITY	. :	
● T	ransmit/Receive	Receive-Only N/A	
"For S	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 & 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

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 Annex 3 Rad Haz

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?	٥	Yes	•	No		
30. Is the applicant an alien or the representative of an alien?	0	Yes	0	No	•	N/A
31. Is the applicant a corporation organized under the laws of any foreign government?	0	Yes	0	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?	0	Yes	0	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?	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.	O 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	O 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.	O 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	O 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? United Kingdom	/hat administr	cation 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.)

Ob3 seeks authority to move and operate the 1.2m earth stations authorized by this license to a new location in Manassas, VA. Ob3 also seeks to modify the antenna height, the elevation angle and the input power as well as Max EIRP per carrier, Max EIRP Density per carrier, and Max EIRP toward the horizon.

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.	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

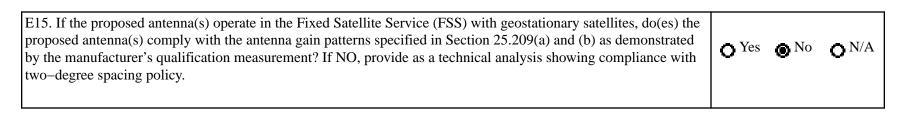
The Applicant waives any claim to the use of any particular frequency or of the electromagnetic spectrum as against the regulatory power of the United States because of the previous use of the same, whether by license or otherwise, and requests an authorization in accordance with this application. The 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.

	plicable response.)	
o Individual		
O Unincorporated Association		
O Partnership		
Corporation		
Governmental Entity		
Other (please specify)		
_		
45. Name of Person Signing	46. Title of Person Signing	
45. Name of Person Signing Suzanne Malloy	46. Title of Person Signing Vice President, Regulatory Affiars	
Suzanne Malloy		

(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).

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

Location of Earth S	tation Site					
E1: Site Identifier:	Randolph Ridge	E5. Call Sign:	E150018			
E2: Contact Name	Network Operations Center	E6. Phone Number:	703–366–1500			
E3. Street:	12811 Randolph Ridge Lane	E7. City:	Manassas			
		E8. County:	Manassas			
E4. State	VA	E9. Zip Code	20109			
E10. Area of Opera	tion:	Fixed				
E11. Latitude:	38 °47 '46.6 "N					
E12. Longitude:	77 °34 '37.4 "W					
E13. Lat/Lon Coord	dinates are:	O NAD-27	NAD-83	O N/A		
E14. Site Elevation (AMSL):		103.05 meters				



E16. If the proposed antenna(s) do not operate in the Fixed Satellite Setatellite Setatellite Service (FSS) with non–geostationary satellites, do(es) the pregain patterns specified in Section 25.209(a2) and (b) as demonstrated by measurements?	oposed 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.	eation and telephone number of the control	⊗ Yes	0	No
E18. Is frequency coordination required? If YES, attach a frequency co	oordination report as Annex 1 & 2	• Yes	0	No
E19. Is coordination with another country required? If YES, attach the coordination contours as	name of the country(ies) and plot of	O Yes	•	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? Annex 4 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: If you selected OTHER, please enter the following:				
E21. Common Name:	E22. ITU Name:			
E23. Orbit Location:	E24. Country:			
POINTS OF COMMUNICATION (Destination Points)	•			
E25. Site Identifier:				

E26. Common Name:	E27. Country:

ANTENNA

Site ID	E28. Antenna Id	E29. Quantity	E30. Manufacturer	E31. Model	Size <meters></meters>	E41/42. Antenna Gain Transmint and/or Recieve (dBi atGHz)	
Randolph Ridge	Orbit 1.2m	2	Orbit Communication s	AL-7103-Ka	1.2	0.0 dBi at	

Id	Diameter		,	Height Above Ground Level	Input Power at antenna flange	E39. Maximum Antenna Height Above Rooftop (meters)	EIRP for al
Orbit 1.2m	1.2/1.2	8.7	111.8	6.7	40.0	2.0	64.52

FREQUENCY

	E43/44. Frequency Bands (MHz)				EIRP per Carrier (dBW)	E49. Maximum ERIP Density per Carrier (dBW/4kHz)
Orbit 1.2m	17800 18600	R	Left and Right Circular	216MG7D	0.0	0.0

E50. Modulation entirety.)	and Services (If the	e complete description	on does not appear in	this box, please go t	o the end of the form	to view it in its
	dulations up t	o 32APSK; Digi	tal Data Link			
Orbit 1.2m	17800 18600	R	Left and Right Circular	54M0G7D	0.0	0.0
E50. Modulation entirety.) Various Mo	and Services (If the			this box, please go t	o the end of the form	to view it in its
Orbit 1.2m	18800 19300	R	Left and Right Circular	216MG7D	0.0	0.0
E50. Modulation entirety.) Various Mo	and Services (If the			this box, please go t	o the end of the form	to view it in its
Orbit 1.2m	18800 19300	R	Left and Right Circular	54M0G7D	0.0	0.0

E50. Modulation entirety.)	and Services (If the	ne complete description	on does not appear in	this box, please go t	to the end of the form	to view it in its
Various Mo	odulations up t	o 32APSK; Digi	tal Data Link			
Orbit 1.2m	27600 28400	Т	Left and Right Circular	216MG7D	64.52	19.3
E50. Modulation entirety.) Various Mo	and Services (If the			this box, please go t	to the end of the form	to view it in its
Orbit 1.2m	27600 28400	Т	Left and Right Circular	54M0G7D	60.6	19.3
E50. Modulation entirety.)	n and Services (If the	ne complete description	on does not appear in	this box, please go t	to the end of the form	to view it in its
Various Mo	odulations up t	o 32APSK; Digi	tal Data Link			
Orbit 1.2m	28600 29100	Т	Left and Right Circular	216MG7D	64.52	19.3

E50. Modulation and Services (If the complete description does not appear in this box, please go to the end of the form to view it in its entirety.)

Various Modulations up to 32APSK; Digital Data Link

Orbit 1.2m	28600	Т	Left and Right	54M0G7D	60.6	19.3
	29100		Circular			

E50. Modulation and Services (If the complete description does not appear in this box, please go to the end of the form to view it in its entirety.)

Various Modulations up to 32APSK; Digital Data Link

FREQUENCY COORDINATION

E28. Antenna Id		E52/53. Frequency Limits(MHz)	E54/55. Range of Satellite Arc Eastern/West ern Limit	0	E57. Antenna Elevation Angle Eastern Limit	Station Azimuth Angle	E59. Antenna Elevation Angle Western Limit	E60. Maximum EIRP Density toward the Horizon (dBW/4kHz)
Orbit 1.2m	Non– Geostationary	17800 18600	0.0/0.0	122.2	7.0	238.54	7.0	0.0

Non– Geostationary	18800 19300	0.0/0.0	122.2	7.0	238.54	7.0	0.0
Non– Geostationary	27600 28400	0.0/0.0	122.2	7.0	238.54	7.0	-11.05
Non– Geostationary	28600 29100	0.0/0.0	122.2	7.0	238.54	7.0	-11.05

REMOTE CONTROL POINT LOCATION

E61. Call Sign N/A NOTE: Please enter the callsign of the contro callsign for which this application is being filed.		E66. Phone Number +352 710 725 82		
E62. Street Address L–6815 Chateau de Betzdorf BACKUP NOC				
E63. City Betzdorf,	E68. County Grevenmacher		E67/68. State/Country / Luxembourg	E64. Zip Code

E61. Call Sign N/A NOTE: Please enter the callsign of the controlling station, not the callsign for which this application is being filed.	E66. Phone Number 703–366–1500
E62. Street Address 12811 Randolph Ridge Lane	

E63. City Manassas	E68. County Manassas	E67/68. State/Country VA/ USA	E64. Zip Code 20109
		VII, CDII	

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