Date & Time Filed: Nov 6 2013 3:00:16:470PM File Number: SES-MOD-INTR2013-02358

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:

KA313 Add Sinaero to Ku−band VSAT network authorzation; update 6006/12 ESV Authorization; and add Sailor 800A & Sailor 900B to ESV Authorization

Name:	Astrium Services Government, Inc.	Phone Number:	301-838-7807
DBA Name:		Fax Number:	301-838-7752
Street:	2600 Tower Oaks Boulevard	E-Mail:	rob.swanson@astrium.eads-na. com
City:	Rockville	State:	MD
Country:	USA	Zipcode:	20852 –
Attention:	Mr Robert W Swanson		

9–16. Name of Contact Representative

Name: Astrium Services Government, Inc. **Phone Number:** 301–838–7839

Company: Fax Number: 301–838–7752

Street: 2600 Tower Oaks Boulevard **E-Mail:** james.lovelace@astrium.eads-na.

com

City: Rockville State: MD

Country: USA Zipcode: 20852-

Attention: James G. Lovelace **Relationship:** Other

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
~	159. If No, indicate reason for fee exemption (see 47 C.F.R.Section 1.1114).
Other(please explain):	rciai educational ficensee
17d. Fee Classification CGV – Fixed Satellite V	/SAT System

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 modification please enter only the file number:		
(a) Call sign of station: KA313	(a) Date pending application was filed:	(b) File number: SESMFS2013050400363	

TYPE OF SERVICE

I II E OF BERVICE	
20. NATURE OF SERVICE: This filing is for an authorization to provide	e or use the following 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) VSAT & Earth Stations on Ve	essels (ESV)
21. STATUS: Choose the button next to the applicable status. Choose	22. If earth station applicant, check all that apply.
only one.	■ Using U.S. licensed satellites
Common Carrier Non–Common Carrier	Using Non–U.S. licensed satellites
23. If applicant is providing INTERNATIONAL COMMON CARRIER stacilities:	ervice, see instructions regarding Sec. 214 filings. Choose one. Are these
Connected to a Public Switched Network Not connected to a land	Public Switched Network N/A

24 EDEOLENCY DAND(G), Discour 2V2 in the horizon and a silver in the formation in the first
24. FREQUENCY BAND(S): Place an 'X' in the box(es) next to all applicable frequency band(s).
a. C–Band (4/6 GHz) b. Ku–Band (12/14 GHz)
c.Other (Please specify upper and lower frequencies in MHz.)
Frequency Lower: Frequency Upper: (Please specify additional frequencies in an attachment)
TYPE OF STATION
THE 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) VSAT & ESV
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 & 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					
l — authorization to change orbit location					
m — authorization to perform fleet management					
n — authorization to extend milestones					
o — Other (Please specify)					

ENVIRONMENTAL POLICY

under the laws of a foreign country?

must accompany all applications for new transmitting facilities, major modifications, or major amendments.		RadF	laz R	lepor	ts	
ALIEN OWNERSHIP Earth station applicants not proposing to provide broadcast, common carrier, aeron aeronautical 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	0	Yes	•	No	0	N/A

O Yes 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?	● 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.	Ownership Statement
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 O No
	Exhibs 2–10 Tables
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.	Exhibs 2–10 Tables 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
	Operations Are	eas
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, w coordinated or is in the process of coordinating the space station? All sattelites to be used are on Permitted List	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.)

Applicant Astrium Services Government, Inc. seeks authority to add up to 500 Sinaero 1.2 meter flyaway antenna remote terminals to its Ku− band VSAT network. The authority sought is for operation of the terminals throughout CONUS, Alaska, Hawaii and U.S. territories. Astrium is also requesting that the Particulars of Operation, Antenna

Narra & 25.222 Compl

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.

44. Applicant is a (an): (Choose the button next to applicable response.)	
o Individual	
Unincorporated Association	
O Partnership	
Corporation	
Governmental Entity	
Other (please specify)	
45. Name of Person Signing	46. Title of Person Signing
James G. Lovelace	Contractor
>	
	I ARE PUNISHABLE BY FINE AND / OR IMPRISONMENT EVOCATION OF ANY STATION AUTHORIZATION 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 St	ation Site					
E1: Site Identifier:	Remote 1.2M Sinaero	E5. Call Sign:	KA313			
E2: Contact Name	Guy White	E6. Phone Number:	203-262-5010			
E3. Street:		E7. City:				
		E8. County:				
E4. State		E9. Zip Code				
E10. Area of Operat	tion:	CONUS, Alaska,Ha	waii & U.S. Territori	ies		
E11. Latitude:	0 °0 '0.0 "					
E12. Longitude:	0 °0 '0.0 "					
E13. Lat/Lon Coord	linates are:	O NAD-27	● NAD-83	O N/A		
E14. Site Elevation	(AMSL):	0.0 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 Set Satellite Service (FSS) with non–geostationary satellites, do(es) the progain patterns specified in Section 25.209(a2) and (b) as demonstrated by measurements?	O Yes	O No	● N/A	
E17. Is the facility operated by remote control? If YES, provide the loca point.	ation and telephone number of the control	Yes	0	No
E18. Is frequency coordination required? If YES, attach a frequency coordination	ordination 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	O Yes	•	No
E20. FAA Notification – (See 47 CFR Part 17 and 47 CFR part 25.1 have you attached a copy of a completed FCC Form 854 and/or the FAZ 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: ALSAT ALL AUTHORIZED U.S. ALSAT If you s	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	E32. Antenna Size <meters></meters>	E41/42. Antenna Gain Transmint and/or Recieve (dBi atGHz)	
Remote 1.2M Sinaero	SA 1.2mFly	500	Sinaero	SA-1.2TFLY	1.2	41.5 dBi at 12.20	
Remote 1.2M Sinaero	SA 1.2mFly	500	Sinaero	SA-1.2TFLY	1.2	42.1 dBi at 14.25	

Id	Diameter		,	Height Above Ground Level	Input Power at antenna flange	E39. Maximum Antenna Height Above Rooftop (meters)	EIRP for al
SA 1.2mFly	1.2/1.2	0.0	0.0	0.0	47.2	0.0	58.84

FREQUENCY

	E43/44. Frequency Bands (MHz)	E45. T/R Mode			E48. Maximum EIRP per Carrier (dBW)	E49. Maximum ERIP Density per Carrier (dBW/4kHz)
SA 1.2mFly	11700 12200	R	Linear and Circular	1M00G1W	0.0	0.0

	50. Modulation	and Services (If the	e complete description	on does not appear in	this box, please go to	o the end of the form	to view it in its	
entir		AFFIC USING QP	SK AND BPSK MO	DULATION				
SA 1	.2mFly	11700 12200	R	Linear and Circular	1M00G7W	0.0	0.0	
	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 ntirety.) DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION							
SA 1	.2mFly	11700 12200	R	Linear and Circular	36M0G1W	0.0	0.0	
	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 ntirety.) DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION							
SA 1	.2mFly	11700 12200	R	Linear and Circular	36M0G7W	0.0	0.0	

E3	50. Modulation	and Services (If th	e complete description	on does not appear in	this box, please go to	o the end of the form	to view it in its	
г	•	AFFIC USING QP	SK AND BPSK MO	DULATION				
SA 1	.2mFly	14000 14500	Т	Linear and Circular	10M0G1W	58.84	24.84	
entire		AFFIC USING QP			uns box, picuse go u	o the end of the form	to view it in its	
SA 1	.2mFly	14000 14500	Т	Linear and Circular	10M0G7W	58.84	24.84	
entire	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 ntirety.) DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION							
SA 1	.2mFly	14000 14500	Т	Linear and Circular	64K0G1W	40.14	28.1	

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.)

DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION

S	A 1.2mFly	14000	Т	Linear and Circular	64K0G7W	1411 14	28.1
		14500					

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.)

DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION

FREQUENCY COORDINATION

E28. Antenna Id	E51. Satellite Orbit Type	E52/53. Frequency Limits(MHz)	E54/55. Range of Satellite Arc Eastern/West ern Limit	Station Azimuth Angle	E57. 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)
SA 1.2mFly	Geostationary	11700 12200	64.0/144.0	0.0	5.0	0.0	5.0	0.0
	Geostationary	14000 14500	64.0/144.0	0.0	5.0	0.0	5.0	0.0

REMOTE CONTROL POINT LOCATION

E61. Call Sign KA313 NOTE: Please enter the callsign of the contro callsign for which this application is being filed.	E66. Phone Number 203−262			
E62. Street Address 2120 River Road				
E63. City Southbury	E68. County New Haven		E67/68. State/Country CT/ USA	E64. Zip Code 96488

SATELLITE EARTH STATION AUTHORIZATIONS

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

Location of Earth St	ation Site				
E1: Site Identifier:	Ku-band ESV Remotes	E5. Call Sign:	KA313		
E2: Contact Name	Guy White	E6. Phone Number:	203-262-5010		
E3. Street:		E7. City:			
		E8. County:			
E4. State		E9. Zip Code			
E10. Area of Operat	tion:	U.S. and Internation	al Waters		
E11. Latitude:	0 °0 '0.0 "				
E12. Longitude:	0 °0 '0.0 "				
E13. Lat/Lon Coord	linates are:	o NAD-27	● NAD-83	O ^{N/A}	
E14. Site Elevation	(AMSL):	0.0 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.	● Yes	O No	O N/A
E16. If the proposed antenna(s) do not operate in the Fixed Satellite Service (FSS), or if they operate in the Fixed Satellite Service (FSS) with non–geostationary satellites, do(es) the proposed antenna(s) comply with the antenna gain patterns specified in Section 25.209(a2) and (b) as demonstrated by the manufacturer's qualification measurements?	○ Yes	O No	⊚ N/A

E17. Is the facility operated by remote control? If YES, provide the locat point.	ion and telephone number of the control	● Yes	O No
E18. Is frequency coordination required? If YES, attach a frequency coordination	rdination report as	O Yes	No
E19. Is coordination with another country required? If YES, attach the na coordination contours as	ame of the country(ies) and plot of	O Yes	No
E20. FAA Notification – (See 47 CFR Part 17 and 47 CFR part 25.11 have you attached a copy of a completed FCC Form 854 and/or the FAA the structure to aviation? FAILURE TO COMPLY WITH 47 CFR PARTS 17 AND 25 WILL RAPPLICATION.	's study regarding the potential hazard of	O Yes	No
POINTS OF COMMUNICATION			
Satellite Name: ALSAT ALL AUTHORIZED U.S. ALSAT If you se	elected 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: ANTENNA	E27. Country:		

Site ID	E28. Antenna Id	E29. Quantity	E30. Manufacturer	E31. Model	E32. Antenna Size <meters></meters>	E41/42. Antenna Gain Transmint and/or Recieve (dBi atGHz)
Ku-band ESV Remotes	6006/09/12	500	Sea Tel	6006/6009/6012	1.5	41.39 dBi at 12.20
Ku-band ESV Remotes	6006/09/12	500	Sea Tel	6006/6009/6012	1.5	45.1 dBi at 14.25
Ku-band ESV Remotes	Sailor800A	500	Thrane & Thrane	TT-7080A SAILOR 800A	0.83	37.9 dBi at 11.70
Ku-band ESV Remotes	Sailor800A	500	Thrane & Thrane	TT-7080A SAILOR 800A	0.83	40.0 dBi at 14.25
Ku-band ESV Remotes	Sailor900B	500	Thrane & Thrane	TT-7090B SAILOR 900B	1.0	40.2 dBi at 11.70
Ku-band ESV Remotes	Sailor900B	500	Thrane & Thrane	TT-7090B SAILOR 900B	1.0	41.1 dBi at 14.25

Id		E35. Above Ground Level (meters)	` ′	Height Above Ground Level	Input Power at	E39. Maximum Antenna Height Above Rooftop (meters)	EIRP for al
6006/09/12	1.5/1.5	0.0	0.0	0.0	85.11	0.0	64.4
Sailor800A	0.83/0.83	0.0	0.0	0.0	5.495	0.0	47.4
Sailor900B	1.0/1.0	0.0	0.0	0.0	7.44	0.0	49.81

FREQUENCY

E28. Antenna Id	E43/44. Frequency Bands (MHz)	E45. T/R Mode	E46. Antenna Polarization(H,V, L,R)	E47. Emission Designator	E48. Maximum EIRP per Carrier (dBW)	E49. Maximum ERIP Density per Carrier (dBW/4kHz)
6006/09/12	10950 11200	R	Horizontal and Vertical	44K8G1W	0.0	0.0
E50. Modulation entirety.) DIGITAL T	n and Services (If the RAFFIC USING QE			this box, please g	o to the end of the form	to view it in its
6006/09/12 E50. Modulation	10950 11200 n and Services (If the	R he complete descrip	Horizontal and Vertical tion does not appear in	44K8G7W 1 this box, please g	0.0 to the end of the form	0.0 to view it in its
entirety.) DIGITAL T	RAFFIC USING QE					

E50. Modulation	and Services (If the	ne complete description	on does not appear ir	this box, please go t	o the end of the form	to view it in its	
DIGITAL TE	RAFFIC USING QP	SK AND BPSK MO	DULATION				
6006/09/12	10950 11200	R	Horizontal and Vertical	54MOG7W	0.0	0.0	
entirety.) DIGITAL TE	RAFFIC USING QP	SK AND BPSK MO	DULATION				
6006/09/12	11450 12200	R	Horizontal and Vertical	44K8G1W	0.0	0.0	
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.) DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION							
6006/09/12	11450 12200	R	Horizontal and Vertical	44K8G7W	0.0	0.0	

E50. Modulation	and Services (If the	ne complete description	on does not appear in	n this box, please go t	o the end of the form	to view it in its	
DIGITAL TF	RAFFIC USING QP	SK AND BPSK MO	DULATION				
6006/09/12	11450 12200	R	Horizontal and Vertical	54MOG1W	0.0	0.0	
entirety.) DIGITAL TF	RAFFIC USING QP	SK AND BPSK MO	DULATION				
6006/09/12	11450 12200	R	Horizontal and Vertical	54MOG7W	0.0	0.0	
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.) DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION							
6006/09/12	14000 14500	Т	Horizontal and Vertical	10M0G1W	64.4	30.4	

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		
	RAFFIC USING QP	SK AND BPSK MO	DULATION					
6006/09/12	14000 14500	Т	Horizontal and Vertical	10M0G7W	64.4	30.4		
entirety.)	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.) DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION							
6006/09/12	14000 14500	Т	Horizontal and Vertical	44K8G1W	41.6	31.1		
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.) DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION								
6006/09/12	14000 14500	Т	Horizontal and Vertical	44K8G7W	41.6	31.1		

E50. Modulation	and Sarvices (If th	a complete description	on door not annour ir	this how places as t	o the end of the form	to view it in its		
entirety.)	and services (if the	le complete description	on does not appear in	i uns box, piease go u	o the end of the form	to view it iii its		
<u> </u>	AFFIC USING QP	SK AND BPSK MO	DULATION					
Sailor800A	10950 11200	R	Horizontal and Vertical	44K8G1W	0.0	0.0		
	entirety.) DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION							
Sailor800A	10950 11200	R	Horizontal and Vertical	44K8G7W	0.0	0.0		
E50. Modulation entirety.)	and Services (If the	e complete description	on does not appear in	this box, please go to	o the end of the form	to view it in its		
DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION								
Sailor800A	10950 11200	R	Horizontal and Vertical	54MOG1W	0.0	0.0		

E50. Modulation entirety.)	n and Services (If	the complete descripti	on does not appear i	n this box, please g	o to the end of the fo	orm to view it in its		
	RAFFIC USING Q	PSK AND BPSK MO	DULATION					
Sailor800A	10950 11200	R	Horizontal and Vertical	54MOG7W	0.0	0.0		
entirety.)	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.) DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION							
Sailor800A	11450 12200	R	Horizontal and Vertical	44K8G1W	0.0	0.0		
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.) DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION								
Sailor800A	11450 12200	R	Horizontal and Vertical	44K8G7W	0.0	0.0		

E50. Modulation	n and Services (If t	he complete descripti	on does not appear is	n this box, please go	to the end of the form	to view it in its		
entirety.) DIGITAL TI	RAFFIC USING QE	PSK AND BPSK MC	DULATION					
Sailor800A	11450 12200	R	Horizontal and Vertical	54MOG1W	0.0	0.0		
entirety.)	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.) DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION							
Sailor800A	11450 12200	R	Horizontal and Vertical	54MOG7W	0.0	0.0		
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.) DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION								
Sailor800A	14000 14500	Т	Horizontal and Vertical	44K8G1W	31.3	20.8		

E50. Modular entirety.)	tion and Services	(If the complete de	escription does not appear	in this box, please	go to the end of the	he form to view it in its
DIGITAL	TRAFFIC USING	G QPSK AND BP	SK MODULATION			
Sailor800A	14000 14500	Т	Horizontal and Vertical	44K8G7W	31.3	20.8
E50. Modular entirety.)	tion and Services	(If the complete de	escription does not appear	in this box, please	go to the end of the	he form to view it in its
DIGITAL	TRAFFIC USING	J ÖLSK WUN BL	SK MODULATION			
Sailor800A	14000 14500	Т	Horizontal and Vertical	5M00G1W	47.4	16.4
E50. Modula entirety.)	tion and Services	(If the complete de	escription does not appear	in this box, please	go to the end of the	he form to view it in its
DIGITAL	TRAFFIC USING	G QPSK AND BP	SK MODULATION			
Sailor800A	14000 14500	Т	Horizontal and Vertical	5M00G7W	47.4	16.4

E50. Modulation entirety.)	and Services (If the	ne complete description	on does not appear in	n this box, please go to	o the end of the form	to view it in its
T	AFFIC USING QP	SK AND BPSK MO	DULATION			
Sailor900B	10950 11200	R	Horizontal and Vertical	44K8G1W	0.0	0.0
entirety.) DIGITAL TR	AFFIC USING QP				o the end of the form	
Sailor900B	10950 11200	R	Horizontal and Vertical	44K8G7W	0.0	0.0
E50. Modulation entirety.) DIGITAL TR	and Services (If the			n this box, please go to	o the end of the form	to view it in its
Sailor900B	10950 11200	R	Horizontal and Vertical	54MOG1W	0.0	0.0

E50. Modulation entirety.)	and Services (If the	e complete description	on does not appear in	this box, please go to	o the end of the form	to view it in its
T	AFFIC USING QP	SK AND BPSK MO	DULATION			
Sailor900B	10950 11200	R	Horizontal and Vertical	54MOG7W	0.0	0.0
entirety.) DIGITAL TR	AFFIC USING QP				o the end of the form	
Sailor900B	11450 12200	R	Horizontal and Vertical	44K8G1W	0.0	0.0
E50. Modulation entirety.) DIGITAL TR	and Services (If th			this box, please go to	o the end of the form	to view it in its
Sailor900B	11450 12200	R	Horizontal and Vertical	44K8G7W	0.0	0.0

E50. Modulation entirety.)	and Services (If the	ne complete description	on does not appear is	n this box, please go	to the end of the form	to view it in its
<u> </u>	RAFFIC USING QP	SK AND BPSK MO	DULATION			
Sailor900B	11450 12200	R	Horizontal and Vertical	54MOG1W	0.0	0.0
entirety.) DIGITAL TF	RAFFIC USING QP				to the end of the form	
Sailor900B	11450 12200	R	Horizontal and Vertical	54MOG7W	0.0	0.0
E50. Modulation entirety.) DIGITAL TF	a and Services (If the			n this box, please go	to the end of the form	to view it in its
Sailor900B	14000 14500	Т	Horizontal and Vertical	44K8G1W	35.8	25.3

E50. Modulation entirety.)	and Services (If the	ne complete description	on does not appear in	n this box, please go	to the end of the form	to view it in its
DIGITAL TR	RAFFIC USING QP	SK AND BPSK MC	DULATION			
Sailor900B	14000 14500	Т	Horizontal and Vertical	44K8G7W	35.8	25.3
E50. Modulation entirety.) DIGITAL TR	RAFFIC USING QP			ir uns oox, picase go	to the end of the form	to view it in its
Sailor900B	14000 14500	Т	Horizontal and Vertical	5M00G1W	49.8	18.8
E50. Modulation entirety.)	and Services (If the	ne complete description	on does not appear is	n this box, please go	to the end of the form	to view it in its
DIGITAL TR	RAFFIC USING QP	SK AND BPSK MC	DULATION			
Sailor900B	14000 14500	Т	Horizontal and Vertical	5M00G7W	49.8	18.8

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.)

DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION

FREQUENCY COORDINATION

E28. Antenna Id	E51. Satellite Orbit Type	E52/53. Frequency Limits(MHz)	E54/55. Range of Satellite Arc Eastern/West ern Limit	E56. Earth Station Azimuth Angle Eastern Limit	E57. 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)
6006/09/12	Geostationary	10950 12200	0.0/0.0	0.0	5.0	0.0	5.0	0.0
	Geostationary	14000 14500	0.0/0.0	0.0	5.0	0.0	5.0	0.0
Sailor800A	Geostationary	10950 12200	0.0/0.0	0.0	5.0	0.0	5.0	0.0
	Geostationary	14000 14500	0.0/0.0	0.0	5.0	0.0	5.0	0.0
Sailor900B	Geostationary	10950 12200	0.0/0.0	0.0	5.0	0.0	5.0	0.0
	Geostationary	14000 14500	0.0/0.0	0.0	5.0	0.0	5.0	0.0

REMOTE CONTROL POINT LOCATION

E61. Call Sign KA313 NOTE: Please enter the callsign of the contro callsign for which this application is being filed.	E66. Phone Number 203−262			
E62. Street Address 2120 River Road	•			
E63. City Southbury	E68. County New Haven		E67/68. State/Country CT/ USA	E64. Zip Code 96488

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

Applicant Astrium Services Government, Inc. seeks authority to add up to 500 Sinaero 1.2 meter flyaway antenna remote terminals to its Ku− band VSAT network. The authority sought is for operation of the terminals throughout CONUS, Alaska, Hawaii and U.S. territories. Astrium is also requesting that the Particulars of Operation, Antenna Facilities and other Specifications for the Sea Tel 6006 1.5 meter Ku-band ESV remote antenna currently authorized per the KA313 license for use to provide ESV service be updated by deleting all information currently listed in the license for the 6006 and then adding the antenna back to the license using the particulars and other specifics set forth for the Sea Tel 6006/6009/6012 in the Schedule B which follows. No change (or deletion) is requested for any other aspects of the license. Only Sea Tel 6006 information is to be deleted and added back in. Finally, authorization is being requested to add the following new ESV antennas to the KA313 ESV Authorization - Thrane & Thrane Model TT-7080A Sailor 800A 0.83 meter Ku-band antenna and Thrane & Thrane Model TT-7090B Sailor 900B 1.0 meter Ku-band antenna.