Date & Time Filed: Jun 29 2018 9:04:34:513AM File Number: SES–MOD–INTR2018–03337

FCC APPLICATION	N FOR SPACE AND EARTH STATION	ON:MOD OR AMD – MAIN FORM	I FCC Use Only
	FCC 312 MAIN FORM FOR OFFIC	TAL USE ONLY	
APPLICANT INFOR	MATION		
1	this application to identify it on the Sign E070216 to update site coordi		
1–8. Legal Name of App	plicant		
Name:	Comcast of California/Maryland/Pennsylvania/ Virginia/West Virginia, LLC	Phone Number:	215–286–7454
DBA Name:		Fax Number:	215-286-1022
Street:	One Comcast Center	E–Mail:	sheila_smith@cable.comcast.com
	1701 John F. Kennedy Boulevard		
City:	Philadelpia	State:	PA
Country:	USA	Zipcode:	19103 –2838
Attention:	Sheila Smith		

9–16. Name of Contact	Representative		
Name:	Catherine Fox	Phone Number:	215-286-8818
Company:	Comcast	Fax Number:	
Street:	One Comcast Cent	er E-Mail:	Catherine_Fox@Comcast.com
	1701 John F. Kenn	edy Boulevard	
City:	Philadelpia	State:	PA
Country:	USA	Zipcode:	19103–
Attention:		Relationship:	
CLASSIFICATION C	OF FILING		
 17. Choose the button r classification that appli both questions a. and b for 17a and only one for al. Earth Station a1. Earth Station a2. Space Station 	es to this filing for . Choose only one or 17b.	 b3. Amendment to a Pending A b4. Modification of License or b5. Assignment of License or Regis b6. Transfer of Control of License of b7. Notification of Minor Mode (N/A) b8. Application for License of Satellite (N/A) b9. Letter of Intent to Use No States (N/A) b10. Other (Please specify) (N/A) b11. Application for Earth 	ion of New Domestic Receive–Only Station pplication Registration tration or Registration of New Receive–Only Station Using Non–U.S. Licensed on–U.S. Licensed Satellite to Provide Service in the United Station to Access a Non–U.S.satellite Not Currently Authorized he Proposed Frequencies in the United States ase Entry Database Entry Application

17c. Is a fee submitted with this applicat							
● If Yes, complete and attach FCC Form 159. If No, indicate reason for fee exemption (see 47 C.F.R.Section 1.1114).							
O Governmental Entity O Noncommercial educational licensee							
• Other(please explain):							
17d.							
Fee Classification CGO – Receive Only I	Earth Station						
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: E070216	(a) Date pending application was filed:	(b) File number:					
		SESREG2007083101215					

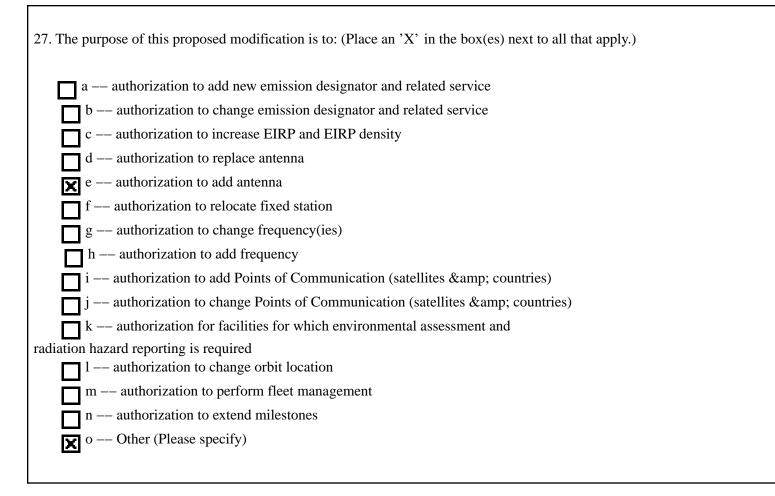
TYPE OF SERVICE

20. NATURE OF SERVICE: This filing is for an authorization to provid	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)	
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 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 a	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 addition	onal 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
O 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



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.

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?				No		
30. Is the applicant an alien or the representative of an alien?	0	Yes	0	No	۲	N/A
31. Is the applicant a corporation organized under the laws of any foreign government?	0	Yes	0	No	۲	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	۲	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?

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	

O Yes O No ⊚ N/A

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.	• Yes	O 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.

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.



O No

Yes

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.)

Modification of Call Sign E070216 to update coordinates and quantity of antennas

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.	О ^В
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	
O Unincorporated Association	
• Partnership	
• Corporation	
• Governmental Entity	
• Other (please specify)	
45. Name of Person Signing	46. Title of Person Signing
Catherine Fox	Deputy General Counsel
>	
	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:	Willits	E5. Call Sign:	E070216			
E2: Contact Name	Larry Rease	E6. Phone Number:	707–489–7356			
E3. Street:	1460 South Main	E7. City:	Willits			
		E8. County:	MENDOCINO			
E4. State	СА	E9. Zip Code	95490			
E10. Area of Operat	ion:	California				
E11. Latitude:	39 °23 '45.0 "N					
E12. Longitude:	123 °21 '3.8 "W					
E13. Lat/Lon Coord	linates are:	ONAD-27	NAD-83	O N/A		
E14. Site Elevation	(AMSL):	423.51 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}
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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?	O Yes	O ^{No}	● N/A
E17. Is the facility operated by remote control? If YES, provide the location and telephone number of the control point.	O Yes	6	No

E18. Is frequency coordination required? If YES, attach a frequency coordination report as Coordination report	۲	Yes	0	No
E19. Is coordination with another country required? If YES, attach the name of the country(ies) and plot of coordination contours as	0	Yes	۲	No
E20. FAA Notification – (See 47 CFR Part 17 and 47 CFR part 25.113(c)) Where FAA notification is required, have you attached a copy of a completed FCC Form 854 and/or the FAA's study regarding the potential hazard of the structure to aviation? FAILURE TO COMPLY WITH 47 CFR PARTS 17 AND 25 WILL RESULT IN THE RETURN OF THIS APPLICATION.	0	Yes	۲	No

POINTS OF COMMUNICATION

Satellite Name: PERMITTED LIST 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	E32. Antenna Size <meters></meters>	E41/42. Antenna Gain Transmint and/or Recieve (dBi at GHz)
Willits	4.6m	2	Scientific– Atlanta	8005	4.6	43.5 dBi at 3.95
Willits	3.4m	1	AFC	3.4 meter	3.4	41.8 dBi at 3.95
Willits	3.8m.prod	1	Prodelin	3.8 meter	3.8	42.1 dBi at 3.95
Willits	3.8mPat	3	Patriot	3.8 meter	3.8	42.9 dBi at 3.95

E28. Antenna Id	E33/34. Diameter Minor/Major (meters)	E35. Above Ground Level (meters)	E36. Above Sea Level(meters)	E37. Building Height Above Ground Level (meters)	E38. Total Input Power at antenna flange (Watts)	E39. Maximum Antenna Height Above Rooftop (meters)	
4.6m	0.0/0.0	4.6	428.11	0.0	0.0	0.0	0.0
3.4m	0.0/0.0	3.4	426.91	0.0	0.0	0.0	0.0
3.8m.prod	0.0/0.0	3.8	427.31	0.0	0.0	0.0	0.0
3.8mPat	0.0/0.0	3.8	427.31	0.0	0.0	0.0	0.0
FREQUENCY	1	1	<u>I</u>	1	I	1	1

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)
4.6m	3700 4200	R	Horizontal and Vertical	36M0G7W	0.0	0.0
E50. Modulation entirety.)	and Services (If deo Carrier	he complete descripti	on does not appear in	this box, please go to	o the end of the form	to view it in its
3.4m	3700 4200	R	Horizontal and Vertical	36M0G7W	0.0	0.0
E50. Modulation entirety.)	and Services (If	he complete descripti	on does not appear in	this box, please go to	o the end of the form	to view it in its
Digital Vi	deo Carrier					
3.8m.prod	3700 4200	R	Horizontal and Vertical	36M0G7W	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 Vi	deo Carrier					
3.8mPat	3700 4200	R	Horizontal and Vertical	36M0G7W	0.0	0.0
E50. Modulation entirety.)	and Services (If t	he complete descript	ion does not appear i	in this box, please	go to the end of t	the form to view it in its
Digital Vi	deo Carrier					

FREQUENCY COORDINATION

E28. Antenna Id	E51. Satellite Orbit Type	E52/53. Frequency Limits(MHz)	Range of Satellite Arc Eastern/West	E56. Earth Station Azimuth Angle Eastern Limit		Station Azimuth Angle	E59. Antenna Elevation Angle Western Limit	E60. Maximum EIRP Density toward the Horizon (dBW/4kHz)
4.6m	Geostationary	3700 4200	74.0/137.0	118.6	22.2	200.9	42.2	0.0
3.4m	Geostationary	3700 4200	74.0/137.0	118.6	22.2	200.9	42.2	0.0

3.8m.prod	Geostationary	3700 4200	74.0/137.0	118.6		22.2	200.9	42.2	0.0		
3.8mPat	Geostationary	3700 4200	74.0/137.0	118.6		22.2	200.9	42.2	0.0		
REMOTE CONTROL POINT LOCATION											
E61. Call Si	E61. Call Sign						E66. Phone Number				
	NOTE: Please enter the callsign of the controlling station, not the callsign for which this application is being filed.										
E62. Street A	Address			·							
E63. City			E68. County	7			E67/68. State/Country /	E64	. Zip Code		

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