

RADIO STATION REGISTRATION

N	ame: Comcast C	Cable Communications	Management	t, LLC Call Sign: E181810						
A	uthorization Typ	e: Registration				File Number:	SES-REG-2	0180809-02855		
	Ion Common Ca ature of Service:	rrier Grant Fixed Satellite Service	t date: 11/2	0/2018 Ехрі	ration Date:		MMUNIC	NONS *		
		ixed Earth Stations				COMM	ISSION			
A) Site Locatio	on(s)			4	Elevat	100000	Special Provisions		
#	Site ID	Address		Latitude	Longitude	(Mete	ers) NAD	(Refer to Section H)		
1)	1	908 Belfast Newberry, Newberry	, SC 29108	34°15'47.6"N	81°39'18.	0"W 140	.32 83			
		Licensee certifies E for special cond	antenna(s) itions plac	do not comply ed upon anteni	y with Sect: has at this	ion 25.209. site.	Please rei	fer to Section		
2)	2	908 Belfast Road Newberry, Newberry	, SC 29108	34°15'47.8"N	81°39'17.	.9"W 140	.77 83			
		Licensee certifies E for special cond	antenna(s) itions plac	do not compl ed upon anten	y with Sect nas at this	ion 25.209. site.	Please re:	fer to Section		
3)) 3	908 Belfast Road Newberry, Newberry	, SC 29108	34°15'48.0"N	81°39'18	.3"W 141	.38 83			
		Licensee certifies E for special cond	antenna(s) itions plac	do not compl ed upon anten	y with Sect nas at this	ion 25.209. site.	Please re	fer to Section		
4) 4	908 Belfast Road Newberry, Newberry	, SC 29108	34°15'48.2"N	81°39'18	.1"W 141	02 83			
		Licensee certifies	antenna(s)	comply with	gain patter	ns specified	l in Sectio	n 25.209		
5) 5	908 Belfast Road Newberry, Newberry	, SC 29108	34°15'48.1"N	1 81°39'17	.9"W 141	02 83			
		Licensee certifies E for special cond	antenna(s) litions plac	do not compl ed upon anten	y with Sect nas at this	ion 25.209. site.	Please re	fer to Section		



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Expiration Date:

08/04/2033

Subject to the provisions of the Communications Act of 1934, The Communications Satellite Act of 1962, subsequent acts and treaties, and all present and future regulations made by this Commission, and further subject to the conditions and requirements set forth in this license, the registrant is registered to operate the radio facilities described below for radio communications for the term beginning August 4, 2018 (3 AM Eastern Standard Time) and ending August 4, 2033 (3 AM Eastern Standard Time). The required date of commencement of operation is 00/00/0000. Registrant must file with the Commission a certification upon commencement of operation.

B) Particulars of Operations

The General Provision 1010 applies to all receiving frequency bands. The General Provision 1900 applies to all transmitting frequency bands. For the text of these provisions, refer to Section H

For the text of these provisions, refer to section H.					Max EIRP	Max EIRP Density		Special Provisions			
#	Frequency (MHz)	Polarizati Code	on Emission	Tx/Rx Mode	/Carrier (dBW)	/Carrier (dBW/4kHz)	Associated Antenna	(Refer to Section H)	Modulatio Services		
1) 37	00.0000-4200.0000	H,V	36M0G7W	Rx			1		Digital	Video	Carrier
2) 37	00.0000-4200.0000	H,V	36M0G7W	Rx			2.		Digital	Video	Carrier
3) 37	00.0000-4200.0000	H,V	36M0G7W	Rx			3		Digital	Video	Carrier
4) 37	00.0000-4200.0000	H,V	36M0G7W	Rx			4		Digital	Video	Carrier
5) 37	00.0000-4200.0000	H,V	36M0G7W	Rx			5		Digital	Video	Carrier
6) 37	700.0000-4200.0000	H,V	36M0G7W	Rx			6		Digital	Video	Carrier
7)37	700.0000-4200.0000	H,V	36M0G7W	Rx			7		Digital	Video	Carrier

C) Frequency Coordination Limits

		Satellite Arc (Deg. Long.)	Elevation (Degrees)	Azimuth (Degrees)	Max EIRP Density toward		
#	Frequency Limits (MHz)	East West Limit Limit	East West Limit Limit	East West Limit Limit	Horizon (dBW/4kHz)	Associated Antenna(s)	
1)	3700.0000-4200.0000	60.0W-143.0W	43.9-14.9	144.8-252.9	1		
2)	3700.0000-4200.0000	60.0W-143.0W	43.9-14.9	144.8-252.9	2		
3)	3700.0000-4200.0000	60.0W-143.0W	43.9-14.9	144.8-252.9	3		
4)	3700.0000-4200.0000	60.0W-143.0W	43.9-14.9	144.8-252.9	4		
5)	3700.0000-4200.0000	60.0W-143.0W	43.9-14.9	144.8-252.9	5		
6)	3700.0000-4200.0000	60.0W-143.0W	43.9-14.9	144.8-252.9	6		
7)	3700.0000-4200.0000	60.0W-143.0W	43.9-14.9	144.8-252.9	7		



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D) Points of Communications

The following stations located in the Satellite orbits consistent with Sections B and C of this Entry:

1) 1 to Permitted Space Station List

2) 2 to Permitted Space Station List

3) 3 to Permitted Space Station List

4) 4 to Permitted Space Station List

5) 5 to Permitted Space Station List

E) Antenna Facilities

	Site ID	Antenna ID	Units	Diameter (meters)	Manufacturer	Model number	Site Elevation (Meters)	Max Antenna Height (Meters)	Special Provisions (Refer to Section H)
1		1	3	3.8	Patriot	3.8 Meter	140.32	3.8 AGL/ 144.12 AMSL	
	Maxi	Gains(s): num total inpu num aggregate	it power	dBi @ at antenna SIRP for a	3.9500 GHz a flange (Watts) = ll carriers (dBW) =				
2		2	1	3.1	Patriot	PRT-05369A	140.77	3.1 AGL/ 143.87 AMSL	
	Maxi		it power		3.9500 GHz a flange (Watts) = ll carriers (dBW) =				
2		3	1	5.5	Scientific Atlanta	5.5 Meter	140.77	5.5 AGL/ 146.27 AMSL	
	Maxi		ut power		3.9500 GHz a flange (Watts) =				
	Maxi	mum aggregate	output l	EIRP for a	ll carriers (dBW) =		. \		
3		4	1	3.8	Comtech	3.8 Meter	141.38	3.8 AGL/ 145.18 AMSL	
	Maxi		ut power		3.9500 GHz a flange (Watts) = ll carriers (dBW) =				

Snecial



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E) Antenna Facilities

	Site ID	Antenna ID	Units	Diameter (meters)	Manufacturer	Model number	Site Elevation (Meters)	Max Antenna Height (Meters)	Provisions (Refer to Section H)
4		5	1	4.5	Scientific Atlanta	8345	141.02	4.5 AGL/ 145.52 AMSL	
	Maxim		it power		3.9500 GHz na flange (Watts) = all carriers (dBW) =				
4		6	1	5.9	Scientific Atlanta	5.9 Meter	141.02	5.9 AGL/ 147.28 AMSL	
	Maxim	ains(s): um total inpu um aggregate	it power	dBi @ at antenn EIRP for a	3.9500 GHz na flange (Watts) = all carriers (dBW) =				
5		7	l	2.8	Scientific Atlanta	9000	141.02	2.8 AGL/ 143.82 AMSL	
	Maxim		it power		3.9500 GHz na flange (Watts) = all carriers (dBW) =				

G) Antenna Structure marking and lighting requirements:

None unless otherwise specified under Special and General Provisions

H) Special and General Provisions

- A) This RADIO STATION AUTHORIZATION is granted subject to the following special provisions and general conditions:
 - 4 --- Licensee must ensure that a current listing of the name, title, mailing address, email address, and telephone number of the responsible point of contact are on file at the FCC. Any changes must be filed electronically in the International Bureau Filing System (IBFS) in the "Other Filings" tab within 10 days of the change.
 - 5 --- Licensee must notify the Commission when this earth station is no longer operational or when it has not been used to provide any service during any 6-month operation.
 - 6 --- Licensee must comply with the license modification and notification requirements of 47 CFR § 25.118 to change the coordinates of its authorized earth station.
 - 2465 --- Operation of this receive-only earth station shall be in accordance with the frequency coordination exhibit completed for this station.

Special



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H) Special and General Provisions

- A) This RADIO STATION AUTHORIZATION is granted subject to the following special provisions and general conditions:
- 90398 --- Changes to previously authorized transmitting facilities, operations and devices regulated by the Commission that may have significant environmental impact, and are not excluded by §1.1306, require the preparation of an Environmental Assessment (EA) by the licensee. (See 47 C.F.R. §§1.1307, 1.1308 and 1.1311)
- 90470 --- The application for this authorization was filed within the 194-day filing window for FSS earth stations operating in the 3700-4200 MHz frequency band as of April 19, 2018, as established by Public Notice DA 18-398 (rel. Apr. 19, 2018) and Public Notice DA-18-639 (rel. 2018-06-21).
- 90471 --- The application for this authorization was filed with a coordination report therefore operations of this earth station in the 3700-4200 MHz band are protected within the limits establish by the coordination report filed.
- 900407 --- The Permitted Space Station List (Permitted List) is a list of all geostationary space stations providing fixed-satellite service pursuant to a Commission license or grant of U.S. market access. The Permitted List currently includes the following frequency bands per §25.103 and §25.115(k)(1):

3600-4200 MHz (space-to-Earth) 5850-6725 MHz (Earth-to-space) 10.95-11.2 GHz (space-to-Earth) 11.45-12.2 GHz (space-to-Earth) 13.75-14.5 GHz (Earth-to-space) 18.3-18.8 GHz (space-to-Earth) 19.7-20.2 GHz (space-to-Earth) 24.75-25.25 GHz (Earth-to-space) 28.35-28.6 GHz (Earth-to-space) 29.25-30.0 GHz (Earth-to-space).

Earth stations with "Permitted List" designated as a point of communication may access any space station on the Permitted List, provided the operations comply with the applicable "routine" uplink and downlink limits, are within the specific frequency bands authorized in the earth station license, have completed coordination with terrestrial stations pursuant to §25.203, and otherwise comply with all terms and conditions of both the earth station license and the space station grant.



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B) This RADIO STATION AUTHORIZATION is granted subject to the additional conditions specified below:

This authorization is issued on the grantee's representation that the statements contained in the application are true and that the undertakings described will be carried out in good faith.

This authorization shall not be construed in any manner as a finding by the Commission on the question of marking or lighting of the antenna system should future conditions require. The grantee expressly agrees to install such marking or lighting as the Commission may require under the provisions of Section 303(q) of the Communications Act. 47 U.S.C. § 303(q).

Neither this authorization nor the right granted by this authorization shall be assigned or otherwise transferred to any person, firm, company or corporation without the written consent of the Commission. This authorization is subject to the right of use or control by the government of the United States conferred by Section 706 of the Communications Act. 47 U.S.C. § 706. Operation of this station is governed by Part 25 of the Commission's Rules. 47 C.F.R. Part 25.

This authorization shall not vest in the licensee any right to operate this station nor any right in the use of the designated frequencies beyond the term of this license, nor in any other manner than authorized herein.

This authorization is issued on the grantee's representation that the station is in compliance with environmental requirements set forth in Section 1.1307 of the Commission's Rules. 47 C.F.R. § 1.1307.

This authorization is issued on the grantee's representation that the station is in compliance with the Federal Aviation Administration (FAA) requirements as set forth in Section 17.4 of the Commission's Rules. 47 C.F.R.§ 17.4.

The following condition applies when this authorization permits construction of or modifies the construction permit of a radio station.

This authorization shall be automatically forfeited if the station does not meet each required construction deadline by the required date of completion unless, before such date(s), a specific application is timely filed to request an extension of the construction deadline(s), supported with good cause why that failure to construct by the required date was due to factors not under control of the grantee.

Licensees are required to pay annual regulatory fees related to this authorization. The requirement to collect annual regulatory fees from regulatees is contained in Public Law 103-66, "The Omnibus Budget Reconciliation Act of 1993." These regulatory fees, which are likely to change each fiscal year, are used to offset costs associated with the Commission's enforcement, public service, international and policy and rulemaking activities. The Commission issues a Report and Order each year, setting the new regulatory fee rates. Receive only earth stations are exempt from payment of regulatory fees.