

RADIO STATION REGISTRATION

N	ame: Comcast C	Cable Communica	ations Managemer	nt, LLC	Call Sign: E181815					
A	uthorization Typ	e: Registration					-REG-20180809-02860			
Na		rrier Fixed Satellite S Fixed Earth Static		'20/2018 Exp	*C* FEDER	MARRA MIC	NONS *S			
A) Site Locatio	on(s)			a start and a start a s	MISS				
	Site ID	Add	ress	Latitude	Longitude	Elevation (Meters)	Special Provisions NAD (Refer to Section H)			
1)	1	108 Ballpark : Soperton, Tre	Drive utlen, GA 30457	32°21′52.7"N	1 82°36'41.3"W	76.08	83			
		Licensee cert E for special	ifies antenna(s conditions pla) do not compl ced upon anten	y with Section 2 nas at this site	5.209. Plea	ase refer to Section			
2)	2	108 Ballpark Soperton, Tre	Drive utlen, GA 30457		82°46'40.5"W	76.53	83			
		Licensee cert E for special	ifies antenna(s conditions pla) do not compl ced upon anter	y with Section 2 nas at this site	5.209. Plea e.	ase refer to Section			
3)	3	108 Ballpark Soperton, Tre	Drive utlen, GA 30457		N 82°36'40.7"W	75.95	83			
		Licensee cert E for special	ifies antenna(s conditions pla	a) do not compl aced upon anter	y with Section 2 mas at this site	25.209. Ple 2.	ase refer to Section			
4) 4	108 Ballpark Soperton, Tre	Drive utlen, GA 30457		N 82°36'41.6"W	75.44	83			
		Licensee cert E for special	ifies antenna(s conditions pla	a) do not compl aced upon anter	y with Section 2 mas at this site	25.209. Ple e.	ase refer to Section			
5) 5	108 Ballpark Soperton, Tre	Drive eutlen, GA 30457		N 82°36'41.0"W	75.95	83			
		Licensee cert E for special	ifies antenna(s conditions pla	s) do not compl aced upon anter	ly with Section 2 mas at this site	25.209. Ple e.	ase refer to Section			



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08/04/2033 **Expiration Date:**

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. . . . afer to Continn U

For the text of these provisions, refer to Section H.						Max EIRP Density	Special Provisions		
#	Frequency (MHz)	Polarization Code	Emission	Tx/Rx Mode	/Carrier (dBW)	(INSTRUCT AN INC.)	ociated (Refer to section H)	Modulation/ Services	
1) 370	0.0000-4200.0000	H,V	36M0G7W	Rx		1		Digital Video	Carrier
2) 370	0.0000-4200.0000	H,V	36M0G7W	Rx		2		Digital Video	Carrier
3) 370	0.0000-4200.0000	H,V	36M0G7W	Rx		3		Digital Video	Carrier
4) 370	0.0000-4200.0000	H,V	36M0G7W	Rx		4		Digital Video	Carrier
5) 370	0.0000-4200.0000	H,V	36M0G7W	Rx		5		Digital Video	Carrier
6) 370	0.0000-4200.0000	H,V	36M0G7W	Rx		6		Digital Video	o Carrier
7) 370	0.0000-4200.0000	H,V	36M0G7W	Rx		7		Digital Video	o Carrier

C) Frequency Coordination Limits

	Frequency Limits	Satellite Arc (Deg. Long.) East West	Elevation (Degrees) East West	Azimuth (Degrees) East West	Max EIRP Density toward Horizon	Associated	
#	(MHz)	Limit Limit	Limit Limit	Limit Limit	(dBW/4kHz)	Antenna(s)	
1)	3700.0000-4200.0000	60.0W-143.0W	45.1-16.3	142.1-253.1	. 1		
2)	3700.0000-4200.0000	60.0W-143.0W	45.1-16.3	142.1-253.1	2		
3)	3700.0000-4200.0000	60.0W-143.0W	45.1-16.3	142.1-253.1	3		
.)	3700.0000-4200.0000	60.0W-143.0W	45.1-16.3	142.1-253.1	4		
5)	3700.0000-4200.0000	60.0W-143.0W	45.1-16.3	142.1-253.1	5		
5)	3700.0000-4200.0000	60.0W-143.0W	45.1-16.3	142.1-253.1	6		
7)	3700.0000-4200.0000	60.0W-143.0W	45.1-16.3	142.1-253.1	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	a Units	Diameter (meters)	Manufacturer	Model number	Site Elevation (Meters)	Max Antenna Height (Meters)	Special Provisions (Refer to Section H)
1			1	1	3	Scientific Atlanta	3 Meter	76.08	3 AGL/ 79.08 AMSL	
	Maxi	imum	s(s): total in aggregat	nput power	dBi @ at antenr EIRP for a	3.9500 GHz na flange (Watts) = all carriers (dBW) =				
2			2	1	3	Scientific Atlanta	3 Meter	76.53	3 AGL/ 79.53 AMSL	
	Maxi	Lmum	s(s): total i aggrega	nput power	dBi @ at anten EIRP for a	3.9500 GHz na flange (Watts) = all carriers (dBW) =				
3			3	1	3	Scientific Atlanta	3 Meter	75.95	3 AGL/ 78.95 AMSL	
	Max	Gain	s(s):	39.5	dBi @	3.9500 GHz				
	Maximum total input power at antenna flange (Watts) =									
						all carriers (dBW) =				
4			4	l	4	Scientific Atlanta	4 Meter	75.44	4 AGL/ 79.44 AMSL	
	Max:	imum		nput power		3.9500 GHz na flange (Watts) = all carriers (dBW) =				

Special



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E) Antenna Facilities

s	Site ID	Antenna ID	Units	Diameter (meters)	Manufacturer	Model numb	Site Elevation er (Meters)	Max Antenna Height (Meters)	Special Provisions (Refer to Section H)
5		5	1	3	Scientific Atla	nta 3 Meter	75.95	3 AGL/ 78.95 AMSL	
	Maximu		it power		3.9500 GHz a flange (Watts)				
	Maximu	ım aggregate	output E	IRP for a	ll carriers (dBW)) =			
5		6	1	4	Scientific Atla	nta 4 Meter	75.95	4 AGL/ 79.95 AMSL	
		ains(s):		dBi @	3.9500 GHz				
					a flange (Watts) ll carriers (dBW				
5		7	1	6	Scientific Atla	inta 6 Meter	75.95	6 AGL/ 81.95 AMSL	
		ains(s):		dBi @	3.9500 GHz				
					a flange (Watts) ll 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.



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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.