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Callsign/Satellite ID:

APPLICATION FOR EARTH STATION AUTHORIZATIONS FCC 312 MAIN FORM FOR OFFICIAL USE ONLY FCC Use Only

APPLICANT INFORMATION

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

CRES – Antenna 02 and 14 Final

1–8. Legal Name o	f Applicant

Name: WML Services, LLC Phone Number: 202–862–5965

DBA Fax Number: 202–955–5564

Name:

Street: 800 17th Street, NW E-Mail: bill.lebeau@hklaw.com

Suite 1100

City: Washington State: DC

Country: USA Zipcode: 20006 -

Attention: c/o William LeBeau, Esq.

9–16. Name of Contact Representative

Name: F. William LeBeau Phone Number: 202–862–5965

Company: Holland & Knight LLP Fax Number: 202–955–5564

Street: 800 17th Street, NW E-Mail: bill.lebeau@hklaw.com

Suite 1100

City: Washington State: DC

Country: USA Zipcode: 20006–

Attention: William LeBeau Relationship: Legal Counsel

CLASSIFICATION OF FILING

17. Choose the button next to the	b.				
classification that applies to this filing for	b1. Application for License of New Station				
both questions a. and b. Choose only one	b2. Application for Registration of New Domestic Receive–Only Station				
for 17a and only one for 17b.					
	(N/A) b3. Amendment to a Pending Application (N/A) b4. Modification of License or Registration				
a.	(N/A) b5. Assignment of License or Registration				
a1. Earth Station	(N/A) b6. Transfer of Control of License or Registration				
(N/A) a2. Space Station (N/A) 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 h 10. Other (Please specify)				
	o b10. Other (Please specify)				
	▶ 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) b13. Amendment to a Pending Database Entry Application				
	(N/A) b14. Modifiction of Database Entry				
17c. Is a fee submitted with this applicati	on?				
If Yes, complete and attach FCC Form	159. If No, indicate reason for fee exemption (see 47 C.F.R.Section 1.1114).				
Governmental Entity Noncomme	ercial educational licensee				
Other(please explain):					
17d.					
Fee Classification BAX – Fixed Satellite T	ransmit/Receive Earth				
Station					

18. If this filing is in reference to an existing station, enter: (a) Call sign of station: Not Applicable 19. If this filing is an amendment to a pending application enter: (a) Date pending application was filed: (b) File number of pending application: Not Applicable Not Applicable
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TYPE OF SERVICE	
20. NATURE OF SERVICE: This filing is for an authorization to provide	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
O Common Carrier Non–Common Carrier	Using Non–U.S. licensed satellites
23. If applicant is providing INTERNATIONAL COMMON CARRIER sefacilities:	ervice, see instructions regarding Sec. 214 filings. Choose one. Are these
O Connected to a Public Switched Network Not connected to	o a Public Switched Network

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:
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
d. Mobile Earth Station
(N/A) e. Geostationary Space Station
(N/A) f. Non-Geostationary Space Station
g. Other (please specify)
26. TYPE OF EARTH STATION FACILITY: Choose only one.
Transmit/Receive Transmit-Only Receive-Only 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.)
Not Applicable

ENVIRONMENTAL POLICY

28. Would a Commission grant of any proposal in this application or amendment

environmental impact as defined by 47 CFR 1.1307? If YES, submit the

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.	Radiation Hazard
ALIEN OWNERSHIP Earth station applicants not proposing to provide broadcast, common carrier, aerona aeronautical fixed radio station services are not required to respond to Items 30–34.	utical en route or
29. Is the applicant a foreign government or the representative of any foreign government?	O Yes O No
30. Is the applicant an alien or the representative of an alien?	O Yes O No ● N/A
31. Is the applicant a corporation organized under the laws of any foreign government?	O Yes O No O 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?	O Yes O No O N/A

have a significant

statement as required by Sections

Yes

No

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	o o 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 1988, 21 U.S.C. Section 862, because of a conviction for possession or distribution of a controlled substance. Set 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.	
42b. What administration has licensed or is in the process of licensing the space station? If no license will be iss coordinated or is in the process of coordinating the space station?	ued, what administration has
43. Description. (Summarize the nature of the application and the services to be provided). (I not appear in this box, please go to the end of the form to view it in its entirety.)	If the complete description does
Applicant seeks authorization for transmit/receive Ku Band earth station	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.

O Individual				
Unincorporated Association				
O Partnership				
T				
O Corporation O Governmental Entity				
Other (please specify) LLC				
45. Name of Person Signing Doug Phillips		46. Title of Perso Senior Vice Presi		
47. Please supply any need attachi	nents.			
Attachment 1:	Attachment 2:		Attachment 3:	
(U.S. Code		R REVOCATION OF A	LE BY FINE AND / OR IMPRISO ANY STATION AUTHORIZATION .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 Station Site

E1: Site Identifier: Antenna 02 E5. Call Sign:

E2: Contact Name Stephen Masters E6. Phone 404–885–7973

Number:

E3. Street: 7200 Campbellton E7. City: Atlanta

Rd

E8. County: Fulton

E4. State GA E9. Zip Code 30331

E10. Area of Operation: Continental United States

E11. Latitude: 33 °41 '26.3 "N

E12. Longitude: 84 °37 '22.9 "W

E13. Lat/Lon Coordinates are: NAD-27 NAD-83 N/A

E14. Site Elevation (AMSL): 246.0 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.	⊚ Ye	s 0	No 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?	O Ye	s 0	No	● N/A
E17. Is the facility operated by remote control? If YES, provide the location and telephone number of the control point.	Ye	es	0	No
E18. Is frequency coordination required? If YES, attach a frequency coordination report as	O Yo	es	•	No
E19. Is coordination with another country required? If YES, attach the name of the country(ies) and plot of coordination contours as	O Yo	es	•	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.	O Yo	es	•	No
POINTS OF COMMUNICATION				
Satellite Name: PERMITTED LIST If you selected OTHER, please enter the following:				

E21. Common N	lame:				E22. ITU	Name:					
E23. Orbit Locat	tion:				E24. Country:						
POINTS OF	COMMUNICAT	TION (Destination	on Points	s)							
E25. Site Identif	ier:										
E26. Common Name:					E27. Cou	ntry:					
ANTENNA					<u> </u>						
Site ID	E28. Antenna	Id E29. Quan	ntity	E30. Manufac	turer	E31. N	Aodel	_	. Antenna <meters></meters>	G	41/42. Antenna ainTransmint nd/or RecievedBi atGHz)
Antenna 02	1	1		Scientific	Atlanta	8010K		7.0		56	5.8 dBi at 12.0
										58	3.1 dBi at 14.0
E28. Antenna Id	E33/34. Diameter Minor/Major (meters)	E35. Above Ground Level (meters)	E36. A Level< (meter		E37. Bui Height A Ground Level <b (meters)</b 	bove	E38. Total Input Powe antenna flange <br (Watts)</br 		E39. Maximum Antenna Hei Above Rooftop <th></th> <th>E40. Total EIRP for al carriers (dBW)</th>		E40. Total EIRP for al carriers (dBW)
1	7.0/7.0	8.1	254.1		0.0		200.0		0.0		81.0

FREQUENCY

E43/44.	E45. T/R Mode	E46. Antenna	E47. Emission	E48. Maximum	E49. Maximum
Frequency Bands		Polarization(H,V,	Designator	EIRP per Carrier	ERIP Density per
(MHz)		L , R)		(dBW)	Carrier
					(dBW/4kHz)
	Frequency Bands	Frequency Bands	Frequency Bands Polarization(H,V,	Frequency Bands Polarization(H,V, Designator	Frequency Bands Polarization(H,V, Designator L,R) EIRP per Carrier (dBW)

1	11700 12200	R	Horizontal and Vertical	36M0G7F	0.0	0.0
E50. Modulation entirety.)	and Services (If th	ne complete description	on does not appear in	this box, please go to	the end of the form	to view it in its
8PSK, QPSK	, digital vide	0				
1	14000 14500	Т	Horizontal and Vertical	36M0G7F	78.0	38.46
E50. Modulation entirety.) 8PSK, QPSK	and Services (If the		on does not appear in	this box, please go to	o the end of the form	to view it in its

FREQUENCY COORDINATION

E28. Antenna Id	l	Frequency Limits(MHz)	Range of Satellite Arc E/W Limit	Station	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)
1	Geostationary	11700 12200	18.0/ 139.0	99.6	7.5	248.72	20.66	0.0

Geost	tationary	14000 14500	18.0/ 139.0	99.6		7.5	248.72	20.66	-9.17	
REMOTE CONTRO	DL POIN	Γ LOCATION	1			•	- I	1		
E61. Call Sign						. Phone Num –878–1818	nber			
NOTE: Please enter the callsign of the controlling station, not the callsign for which this application is being filed.										
E62. Street Addres 1050 Techwood Dr										
E63. City Atlanta			E67. Count Fulton	y			E64/68. State/Countr	ry JSA	E66. Zip Coo 30318	le

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

Location of Earth Station Site

E1: Site Identifier: Antenna 14 E5. Call Sign:

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Number:

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Rd

E8. County: Fulton

E4. State GA E9. Zip Code 30331

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E12. Longitude: 84 °37 '22.0 "W

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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.	⊚ Ye	s 0	No 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?	O Ye	s 0	No	● N/A
E17. Is the facility operated by remote control? If YES, provide the location and telephone number of the control point.	Ye	es	0	No
E18. Is frequency coordination required? If YES, attach a frequency coordination report as	O Yo	es	•	No
E19. Is coordination with another country required? If YES, attach the name of the country(ies) and plot of coordination contours as	O Yo	es	•	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.	O Yo	es	•	No
POINTS OF COMMUNICATION				
Satellite Name: PERMITTED LIST If you selected OTHER, please enter the following:				

E21. Common	mon Name: E22. ITU Name:									
E23. Orbit Loc	E23. Orbit Location: E24. Country:									
POINTS OF COMMUNICATION (Destination Points)										
E25. Site Ident	ifier:									
E26. Common	Name:		I	E27. Country	y:					
ANTENNA										
Site ID	E28. Antenna Id	E29. Quantity	E30.		31. Model	E32. Antenna	E41/42. Antenna			

Site ID	E28. Antenna Id	E29. Quantity	E30. Manufacturer	E31. Model	E32. Antenna Size <meters></meters>	E41/42. Antenna GainTransmint and/or Recieve (dBi atGHz)
Antenna 14	1	1	Scientific Atlanta	8010	7.0	56.8 dBi at 12.0
						58.1 dBi at 14.0

E28. Antenna Id	E33/34. Diameter Minor/Major (meters)	E35. Above Ground Level (meters)	(meters)	Height Above Ground	Input Power at antenna flange 	Maximum Antenna Height	E40. Total EIRP for al carriers (dBW)
1	7.0/7.0	8.1	254.1	0.0	200.0	0.0	81.0

FREQUENCY

E28. Antenna Id	E43/44.	E45. T/R Mode	E46. Antenna	E47. Emission	E48. Maximum	E49. Maximum
	Frequency Bands		Polarization(H,V,	Designator	EIRP per Carrier	ERIP Density per
	(MHz)		L , R)		(dBW)	Carrier
						(dBW/4kHz)

1	11700 12200	R	Horizontal and Vertical	36M0G7F	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
8PSK, QPSK	, digital vide	0				
1	14000 14500	Т	Horizontal and Vertical	36M0G7F	78.0	38.46
E50. Modulation entirety.)	and Services (If the	ne complete description	on does not appear in	this box, please go to	the end of the form	to view it in its
8PSK, QPSK	, digital vide	0				

FREQUENCY COORDINATION

E28. Antenna Id		Frequency Limits(MHz)	Range of Satellite Arc E/W Limit	Station Azimuth Angle	Antenna Elevation Angle Eastern Limit	Station Azimuth Angle	Antenna Elevation Angle	E60. Maximum EIRP Density toward the Horizon (dBW/4kHz)
1	Geostationary	11700 12200	60.0/ 140.0	142.11	43.78	248.72	20.66	0.0

	Geostationary	14000 14500	60.0/ 140.0	142.11		43.78	248.72	20.66		-16.5
REMOTE CONTROL POINT LOCATION										
E61. Call Sign					E65. Phone Number 404–878–1818					
NOTE: Please enter the callsign of the controlling station, not the callsign for which this application is being filed.										
E62. Street Address 1050 Techwood Drive										
E63. City Atlanta			E67. County Fulton	7			E64/68. State/Count GA/ U	ry USA	E66. 3031	Zip Code 8

FCC NOTICE REQUIRED BY THE PAPERWORK REDUCTION ACT

The public reporting for this collection of information is estimated to average 0.25-24 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the required data, and completing and reviewing the collection of information. If you have any comments on this burden estimate, or how we can improve the collection and reduce the burden it causes you, please write to the Federal Communications Commission, AMD–PERM, Paperwork Reduction Project (3060–0678), Washington, DC 20554. We will also accept your comments regarding the Paperwork Reduction Act aspects of this collection via the Internet if you send them to PRA@fcc.gov. PLEASE DO NOT SEND COMPLETED FORMS TO THIS ADDRESS.

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THE FOREGOING NOTICE IS REQUIRED BY THE PAPERWORK REDUCTION ACT OF 1995, PUBLIC LAW 104–13, OCTOBER 1, 1995, 44 U.S.C. SECTION 3507.