Approved by OMB 3060-0678

Date & Time Filed: Jun 7 2013 1:21:10:280PM File Number: SES-LIC-INTR2013-01206

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:

Cross City 3.8 meter earth station application resubmission

1-8. Legal Name of Applicant

Name: HARRIS CORPORATION Phone Number: 321-727-9234

DBA Fax Number: 321-727-9125

Name:

Street: 1025 West Nasa Blvd. E-Mail: bfitch@harris.com

City: Melbourne State: FL

Country: USA Zipcode: 32919 -

Attention: Bruce Fitch

9-16. Name of Contact Representative

Name: George Y. Wheeler Phone Number: 202-955-3000@
Company: Holland & Knight LLP Fax Number: 202-955-5564@

Street: 800 17th Street, NW Suite 1100 E-Mail: george.wheeler@hklaw.com

City: Washington State: DC

Country: USA Zipcode: 20006-

Attention: George Y. Wheeler Relationship: Legal Counsel

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.

a. a1. Earth Station

(N/A) a2. Space Station

- b1. Application for License of New Station
- **b**2. Application for Registration of New Domestic Receive-Only Station
- (N/A) b3. Amendment to a Pending Application
- (N/A) b4. Modification of License or Registration
- (N/A) b5. Assignment of License or Registration
- (N/A) b6. Transfer of Control of License or Registration
- (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
- b10. Other (Please specify)
- **o** 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.

17c. Is a fee submitted with this application?

• 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 Noncommercial educational licensee									
Other(please explain): Resubmission of File #SES-LIC-20130131-00129, fee not reqd per, 47 CFR									
17d.									
Fee Classification BAX - Fixed Sat	tellite Transmit/Receive	e Earth Station							
18. If this filing is in reference to an	19. If this filing is an amen	dment to a pending ap	pplication enter:						
existing station, enter:	(a) Date pending applicatio	n was filed:	(b) File number of pending application:						
(a) Call sign of station: Not Applicable	(a) Call sign of station: Not Applicable Not Applicable Not Applicable								
Tot ripplicable		SERVICE	Tot Tippileade						
20. NATURE OF SERVICE: This filing is t			g type(s) of service(s): Select all that apply:						
	F		2 3 7 F - ()						
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 ap	pplicant, check all that apply.						
only one.		Using U.S. licens	sed satellites						
Common Carrier Non-Common Carr	rier	Using Non-U.S.	licensed satellites						
	IAL COMMON CARRIER	service, see instruction	ns regarding Sec. 214 filings. Choose one. Are						
these facilities:			A						
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 applicable frequency band(s).									
24. FREQUENCY BAND(S): Place an "X" a. C-Band (4/6 GHz) b. Ku-Band (12)		plicable frequency bar	nd(s).						
a. C-Baild (4/6 GHz) b. Ku-Baild (12) c.Other (Please specify upper and lower									
Frequency Lower: Frequency Upper:	requencies in wirz.								
	TYPE OF	STATION							
25. CLASS OF STATION: Choose the butto	on 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)									
	TV: Chaosa anly ana								
Transmit only	-	MODIFICATION							
27. The purpose of this proposed modificati			at apply.)						
Not Applicable	, 	, ,	****						
[ENVIRONME	NTAL POLICY							
28. Would a Commission grant of any prop			ficant environmental						
impact as defined by 47 CFR 1.1307? If YE	ES, submit the statement as re	equired by Sections 1.	1308 and 1.1311 of Yes No						
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 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 CFR 881 1308 and 1.1311 as an exhibit to this application A Radiation Hazard									

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.

	•1115 E G E 11
29. Is the applicant a foreign government or the representative of any foreign government?	O Yes ● No
30. Is the applicant an alien or the representative of an alien?	O Yes ● No O N/A
31. Is the applicant a corporation organized under the laws of any foreign government?	O Yes ● 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 ● No O 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?	O Yes ● No 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.	○ 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.	○ 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.	○ 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 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 ○ 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 ● No
42b. What administration has licensed or is in the process of licensing the space station? If no license will be issued coordinated or is in the process of coordinating the space station?	l, what administration has
43. Description. (Summarize the nature of the application and the services to be provided). Harris Corporation to construct and operate a 3.8 meter C Band earth station to be used in connection with a critical	- ·

Aviation Administration. The earth station will provide air traffic radar services to the FAA.FAA Infra Contr. Ltr

43a. Geographic Service Rule Certification

	dersigned certifies that the applic specified in 47 C.F.R. Part 25.	ant is not subjec	t to the geographic service o	r geographic	◎ 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.										
coverage requirements feasible as a technical compromises in satell	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.										
		CERTIF	ICATION								
United States because application. The applic in 47 CFR Part 20. All The undersigned, indiv	any claim to the use of any partic of the previous use of the same, we ant certifies that grant of this app statements made in exhibits are a ridually and for the applicant, here eect to the best of his or her know	whether by licens lication would not a material part he by certifies that	se or otherwise, and requests not cause the applicant to be ereof and are incorporated he t all statements made in this	an authorization in violation of the erein as if set ou application and i	n in accordance with this ne spectrum aggregation limit t in full in this application.						
44. Applicant is a (an)	(Choose the button next to appli	cable response.)									
 Individual Unincorporated Association Partnership Corporation Governmental Entity Other (please specify) 											
45. Name of Person S	igning		46. Title of Person Signing								
Jim Sheppard			Program Manager								
47. Please supply any	need attachments.										
Attachment 1: Appli	cation Purpose Attach	ment 2:	At	tachment 3:							
(U.S.	LSE STATEMENTS MADE ON Code, Title 18, Section 1001), A S. Code, Title 47, Section 312(a)	ND/OR REVO	OCATION OF ANY STAT	ON AUTHOR	IZATION						
SATELLITE EARTH STATION AUTHORIZATIONS FCC Form 312 - Schedule B:(Technical and Operational Description)											
FOR OFFICIAL USE ONLY											
Location of Earth Stati				NIEWY							
E1: Site Identifier:	CROSS CITY		E5. Call Sign:	NEW 321 300 54	517~						
E2: Contact Name	BRUCE FITCH CTY - 10191 NE 351 H	WV	E6. Phone Number:	321-309-55 OLD TOW	•						
E3. Street:	C11 - 10191 NE 331 H	VV I	E7. City: E8. County:	DIXIE	1N						
E4. State	FL		•	32680							
	4. State FL E9. Zip Code 32680 210. Area of Operation: FIXED POINT SPECIFIED IN E11 & E12										

E12. Longi	tude:	83 ° (0'1.8	" W				_		_			_
	on Coordinates							O _{NAD-2}		⊗N	AD-8	33	o _{N/A}
E14. Site E	Elevation (AMS	SL):						18.3 meter	rs				
proposed an	15. If the proposed antenna(s) operate in the Fixed Satellite Service (FSS) with geostationary satellites, do(es) the roposed antenna(s) comply with the antenna gain patterns specified in Section 25.209(a) and (b) as demonstrated y the manufacturer's qualification measurement? If NO, provide as Non Comp Stmnt a technical analysis nowing compliance with two-degree spacing policy.									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 _{Yes} o	No ●N/A			
E17. Is the point.	facility operate	d by re	emote co	ontrol? If YES	S, pro	ovide the le	ocati	ion and telep	ohor	ne number of the co	ntrol	o Yes	● No
E18. Is fr	equency coo	ordina	ation re	equired? If	YE	S, attach	a f	frequency	co	ordination repor	t as	• Yes	o _{No}
II .	oordination ves) and plot			•	-		/ES	s, attach th	ne i	name of the		o Yes	No
notificati the FAA' FAILUR	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.										● No		
POINTS OI	F COMMUNI	CATI	ON									'	
Satellite I	Name:SES-2	2 (S2	826)	SES-2 87	W.I	L. If you	sel	lected OT	HE	ER, please enter	the fo	llowing:	
E21. Con	nmon Name	:						E	22.	ITU Name:			
E23. Orb	it Location:							E	24.	Country:			
	F COMMUNI	CATI	ON (De	stination Poi	nts)					1			
E25. Site	Identifier:												
	nmon Name:									E27. Country:			
ANTENNA		1					11		1				
Site ID	E28. Antenna Id	II.	29. ntity	E30. Manufactu	ırer	E31. Model	A	E32. Antenna Size		E41/42. Anten Recieve(_			nt and/or Hz)
CROSS CITY	1	1		Prodelin		1383	3.8	3	46	6.0 dBi at 6.17			
									41	1.9 dBi at 3.912			
E28. Antenna Id	E33/34. I Minor/Maj			E35. Above Ground Level (meters)	Al S Lo	E37. Building Height Above Ground Level Ground Level E38. Total Input Power at antenna Above Glange			Maximum enna Height eve Rooftop meters)	E40. Total EIRP for al carriers (dBW)			
1	3.8/3.8			4.0	22.	3 0.	0			0.071	0.0		34.5
FREQUEN				1							11		
E28. Antenna Id	Frequen Bands(M)	сy	E45. T/R Mode	Polariza	tior	ntenna n(H,V,L	,R)	E47. Emission Designat	tor		V)	E49. Maxin Densit Carrier(dB	y per
1	3700 4200		R	Vertical				64K0G7	W	0.0	(0.0	

E11. Latitude:

29 ° 44 ' 36.9 " N

E50. Modulation and Services QPSK								
1	5925 6425	T	Horizontal	64K0G7W	34.5	22.5		
E50. Modulation and Services QPSK								

FREQUENCY COORDINATION

E28. Antenna Id		E52/53. Frequency Limits(MHz)	E54/55. Range of Satellite Arc E/W 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)
1	Geostationary	5925 6425	15.0/ 139.0	101.4	10.9	252.0	20.9	-24.0

REMOTE CONTROL POINT LOCATION REMOTE CONTROL POINT LOCATION

E61. Call Sign	E65. Phone Number			
NOTE: Please enter the callsign of the being filed.	controlling station, not the callsign for which this application is			
E62. Street Address				
E63. City	E67. County	E64/68. State/Country	E66. Zip Code	

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.

FCC IBFS - Electronic Filing

Submission_id :IB2013001206 Successfully filed on :Jun 7 2013 1:21:10:280PM

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HARRIS CORPORATION FCC FORM 312 NEW EARTH STATION JUNE 2013

Application Purpose

Harris Corporation ("Harris") hereby submits this FCC Form 312 application for a proposed 3.8 meter transmit/receive C Band earth station to be located in Old Town, Florida. This application is a resubmission of its Form 312 application made with the Commission on January 31, 2013¹ under File No. SES-LIC-20130131-00129.

On May 22, 2013 the Commission dismissed File No. SES-LIC-20130131-00129 without prejudice to refiling² for the following reasons:

- ·Harris lists the Total Input Power at antenna flange in Item E38 of its Schedule B as 4.65 Watts for the digital emission designator 96K0G7W listed in Item E47. However, the RF Radiation Hazard study provided as part of Harris's application lists the input power at antenna flange as 0.067 Watts. Furthermore, the Frequency Coordination Report provided lists the same the input power (in decibel equivalence) along with an erroneous modulation description, "ANALOG".
- · Harris lists, in Items E54-58 of Schedule B, the eastern and western limits of the satellite arc, the range of antenna elevation angles, and the range of antenna azimuth angles. These values do not match our computations for the earth station coordinates that Harris lists in items E11 and E12 of Schedule B.
- · Harris lists, in item E49 of Schedule B, a maximum EIRP Density per Carrier value of 21.4 dBW/4kHz, but the Frequency Coordination Report provided as part of Harris's application only coordinates a value of 20.5 dBW/4kHz.

Harris has corrected the relevant portions of FCC Form 312, Schedule B within this application. Because this submission only supplies the corrected information as noted, an additional application fee is not required pursuant to 47 C.F.R. § 1.1111(d).

¹ Which in turn was a resubmission of a Form 312 application filed by Harris on December 31, 2012 under File No. SES-LIC-20121231-01134.

² See DA 13-1171, released May 22, 2013.

³ With regard to this FCC notation- Harris chose satellites (TelStar12 @ 15degrees W and AMC8 @ 139degrees W) that are the eastern most and western most satellites that are visible from that location (CTY) with at least 10 degrees of elevation.

ANALYSIS OF NON-IONIZING RADIATION for HARRIS CORPORATION

Site: Cross City State: FL
Latitude: 29 44 36.9 Longitude: 83 0 1.8 (NAD83)

12-03-2012

The Office of Science and Technology Bulletin, No. 65, October 1985 and revised August 1997, specifies that the maximum level of non-ionizing radiation that a person may be exposed to over a six minute period is an average power density equal to 5 mW/cm**2 (five milliwatts per centimeter squared) for a controlled environment. For an uncontrolled environment, the maximum level of non-ionizing radiation that a person may be exposed to over a thirty minute period is an average power density equal to 1 mW/cm**2 (one milliwatt per centimeter squared). It is the purpose of this report to determine the maximum power flux densities of the earth station in the far zone, near zone, transition zone, at the main reflector surface, and between the antenna edge and the ground.

Parameters which were used in the calculations:

Antenna Diameter, (D) = 3.8000 m

Antenna Surface Area (Sa) = $pi(D^{**}2)/4$ = 11.3411 m**2

Wavelength at 6.1750 GHz (lambda) = 0.0485 m

Transmit Power at Flange (P) = 0.0670 Watts

Antenna Gain at Earth Site (GES) = 46.0000 dBi = 39810.7171

Power Ratio:

AntiLog(GES/10)

pi = 3.1415927

Antenna Aperture Efficiency (n) = 0.6000

1. FAR ZONE CALCULATIONS

2. NEAR ZONE CALCULATIONS

Power Flux Density is considered to be at a maximum value throughout the entire length of this Zone. The Zone is contained within a cylindrical volume which has the same diameter as the antenna. Beyond the Near Zone, the Power Flux Density will decrease with distance from the Antenna.

Distance to the Near Zone (Dn) =
$$D^{**2}$$
 = 74.4330 m = 4^*1 ambda

Near Zone Power Density (Rn) = $16.0(n)$ P = 0.0142 W/m**2

pi(D**2)

= 0.0014 mW/cm**2

3. TRANSITION ZONE CALCULATIONS

The Power Density begins to decrease with distance in the Transition Zone. While the Power Density decreases inversely with distance in the Transition Zone, the Power Density decreases inversely with the square of the distance in the Far Zone. Since the maximum Power Density in the Transition Zone will not exceed the Near Zone values, it is not calculated.

4. MAIN REFLECTOR ZONE

Main Reflector Power Density = 2(P) = 0.0118 W/m**2

----Sa

= 0.0012 mW/cm**2

5. ZONE BETWEEN THE MAIN REFLECTOR AND THE GROUND

Applying uniform illumination of the Main Reflector Surface:

Main to Ground Power Density = P = 0.0059 W/m**2

Sa

= 0.0006 mW/cm**2

CALCULATED SAFETY MARGINS SUMMARY AND EVALUATION

Controlled Safety Margin = 5.0 - Calculated Zone Value (mW/cm**2)

	Zones	Safety Margins (mW/cm**2)	Conclusions
1.	Far Zone	4.9993	Complies with ANSI
2.	Near Zone	4.9986	Complies with ANSI
3.	Transition Zone	Rf < Rt < Rn	Complies with ANSI
4.	Main Reflector Surface	4.9988	Complies with ANSI
5.	Main Reflector to Ground	4.9994	Complies with ANSI

Uncontrolled Safety Margin = 1.0 - Calculated Zone Value (mW/cm**2)

	Zones	Safety Margins (mW/cm**2)	Conclusions	
1.	Far Zone	0.9993	Complies with ANSI	
2.	Near Zone	0.9986	Complies with ANSI	
3.	Transition Zone	Rf < Rt < Rn	Complies with ANSI	
4.	Main Reflector Surface	0.9988	Complies with ANSI	
5.	Main Reflector to Ground	0.9994	Complies with ANSI	

- A. Controlled Environment
- B. Uncontrolled Environment
 All Zones comply with ANSI St

All Zones comply with ANSI Standards.



U.S. Department of Transportation

800 Independence Ave., S.W. Washington, D.C. 20591

Federal Aviation Administration

ASU330-FTI-06-6219 18 January 2006

Harris Corporation Attn: Elizabeth Briscoe Mail Stop F- 11A 1025 West NASA Boulevard Melbourne, FL 32919

Subject: FAA Concurrence for Harris C-Band and Ku-Band License Submissions

Dear Ms. Briscoe:

This letter serves to affirm that Harris Corporation, the FAA Telecommunications Infrastructure contractor, requires C-Band and Ku-Band Satellite Frequency Licenses to meet the FAA's data and voice service requirements from remote locations. FAA Satellite communications are essential to the air traffic control and safety of flight within the National Airspace System (NAS). These licenses will also be used in response to emergency operations such as disaster recovery. Granting these licenses is considered in the best interest of the flying public.

If you have any questions regarding matter, please call me at 202.493.5963.

Sincerely,

//s//

Susan Eicher FTI Contracting Officer

HARRIS CORPORATION FCC FORM 312 JUNE 2013

Non-Compliant Antenna Statement

Re: 3.8 Meter Fixed Earth Station

Fixed Satellite Service

C-Band: 3700 – 4200 MHz and 5925.0 – 6425.0 MHz

Harris Corporation ("Harris" or "Applicant") proposes to use a Prodelin 1383, 3.8 meter antenna for its proposed earth station located in Old Town, FL at the coordinates of 28-44-36.9 N, 083-00-01.8 W. The Prodelin 1383 does not strictly comply with 25.209 of the FCC Rules and Regulations.

Pursuant to the *Part 25 Earth Station Fifth Report and Order*, the International Bureau (Bureau) provides a List of Approved Non-Routine Earth Station Antennas. Specifically the website http://www.fcc.gov/ib/sd/nresa lists non-routine earth station antennas licensed for use by one or more U.S. earth station operators since March 15, 2005.

"The Commission has ruled that an Earth station applicant proposing to use an antenna on this list may no longer be required to attach antenna radiation plots as an exhibit to their applications, as required by Section 25.132 (b)(3) of the Commission's rules, 47 C.F.R. § 25.132 (b)(3). Rather, they need only to provide an attachment to their applications citing the particular non-routine earth station antenna they plan to use, and an application file number and call sign of a license in which that type of non-routine antenna has been previously approved."

Accordingly, Harris submits the application file number and call sign, File No. SES-MOD-20080531-00695 (Call Sign: E980383), of a previously licensed Prodelin 1383, 3.8 meter earth station, which indicates that the 3.8 meter antenna proposed in this application will operate without conflict.

The applicant agrees to accept any adjacent satellite interference in the 4 GHz receive band as a result of the performance of the antenna in the 1° to 1.5° region. The applicant understands that no adjacent satellite interference protection will be available in the 1° to 1.5° regions. The applicant understands that adjacent satellite interference protection applies only to the extent of the criteria set forth in §25.209. Should the use of this antenna cause interference to other systems; the applicant agrees to terminate transmission upon notice from the Commission.

Micronet Communications, Inc.

720 F Avenue, Suite 100 Plano, Texas 75074 972-422-7200

SUPPLEMENTAL SHOWING PART 101.103(D)

File Number: M1227712 5.93 GHz

Licensee: HARRIS CORPORATION Page 1

Pursuant to Parts 25.203 and 101.103(d) of the FCC Rules and Regulations, a frequency coordination study was conducted by Micronet Communications, Inc. for the following proposed earth station:

Cross City, FL

The results of the study indicate that no unacceptable interference will result with existing, proposed or prior coordinated radio facilities.

Coordination was performed with existing, proposed and prior coordinated carriers within coordination range on the following dates:

06/07/2013 No-impact change notification pursuant to Section 101.103(d)(2)(ix) - No response required.

The attached coordination data was forwarded on the latest date to the following parties within coordination range or their authorized coordination agents:

ALLTEL COMMUNICATIONS INC

ALLTEL COMMUNICATIONS LLC

ALLTEL COMMUNICATIONS LLC - S FLORIDA

ALLTEL FLORIDA INC

COMSEARCH INC

DUKE ENERGY BUSINESS SERVICES, LLC

EMBARQ FLORIDA INC

HARRIS CORPORATION

M/A COM PRIVATE RADIO SYSTEMS INC

MICRONET COMMUNICATIONS INC

NEW CINGULAR WIRELESS PCS LLC

NEW CINGULAR WIRELESS PCS LLC - GEORGIA

NEW CINGULAR WIRELESS PCS LLC-FLORIDA

NORTH FLORIDA BROADBAND AUTHORITY

SUMTER ELECTRIC COOPERATIVE INC

T-MOBILE LICENSE LLC

VERIZON WIRELESS (VAW) LLC

VERIZON WIRELESS PERSONAL COMM L P (FL)

VERIZON WIRELESS PERSONAL COMMUNICATIONS LP

Micronet Communications, Inc.

720 F Avenue, Suite 100 Plano, Texas 75074 972-422-7200

SUPPLEMENTAL SHOWING PART 101.103(D)

File Number: M1227712 5.93 GHz

Licensee: HARRIS CORPORATION Page 2

Respectfully Submitted,

ereny B. Lewis

Jeremy Lewis Systems Engineer

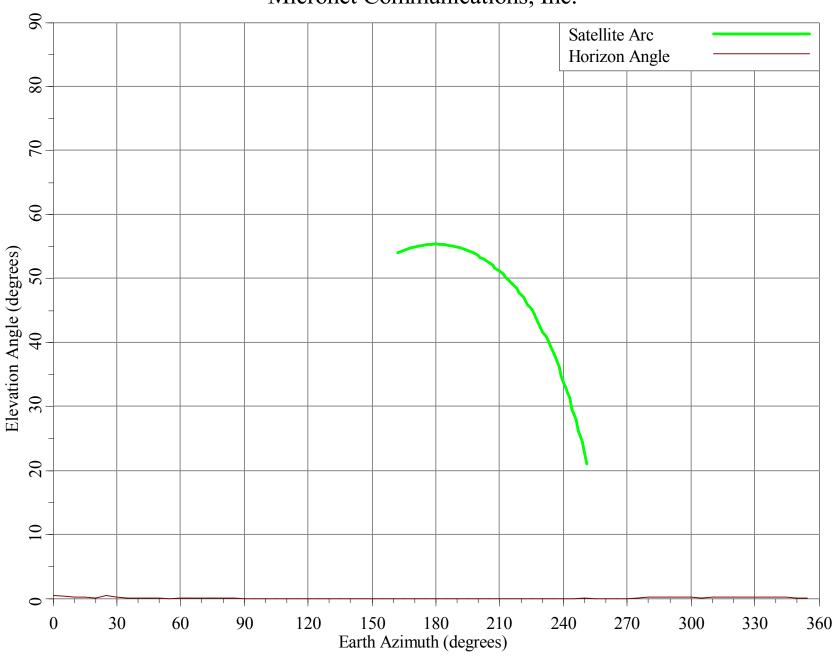
Attached: 1 data sheet

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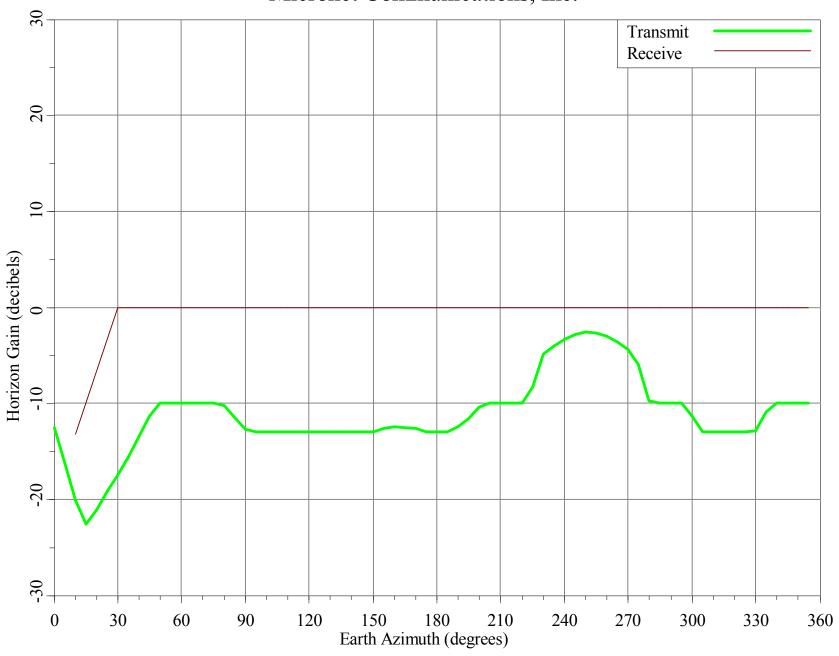
File: M1227712

	=========	=========	=======================================
TECHNICAL CHARACTERIST		-	
- 1 - 2 -	HARRIS CORPO	-	
	Cross City,	FL	
Call Sign:	(0.0.)		0.6.0
Latitude	/	29 44	
Longitude		83 0	
Elevation AMSL		60.00	18.29
Receive Frequency Range	(MHz)	3700-4200	
Transmit Frequency Range Range of Satellite Orbital Long.	(MHz)	5925-6425	120 00
Range of Satellite Orbital Long. Range of Azimuths from North	(deg w)	14.00	139.00
<u> </u>			
		10.00	
Antenna Elevation Angles	(deg)	33.93	20.94
Equipment Parameters		Receive	Transmit
Antonno Coin Moin Doom	/ alla T \	41 00	4.6.00
Antenna Gain, Main Beam 15 DB Half Beamwidth		0.80	
13 DB Hall Beallwidth	(deg)	0.00	0.70
Antennas Receive: PRODELIN	N 1383		
Transmit: PRODELIN			
Max Transmitter Power Max EIRP Main Beam	(dbW/4KHz)		-23.50
Max EIRP Main Beam	(dbW/4KHz)		22.50
Modulation / Emission Designator	DIGITAL	64K0G7W	
Coordination Parameters		Receive	Transmit
Max Greater Circle Distances	(km)	302.49	120 13
Max Rain Scatter Distances	(km)	517.36	100.00
Max Interference Power Long Term		-140 60	-154 00
Max Interference Power Short Terr			
Rain Zone / Radio Zone	(/ /	1	150.00 A
1.0.20 20.00		_	

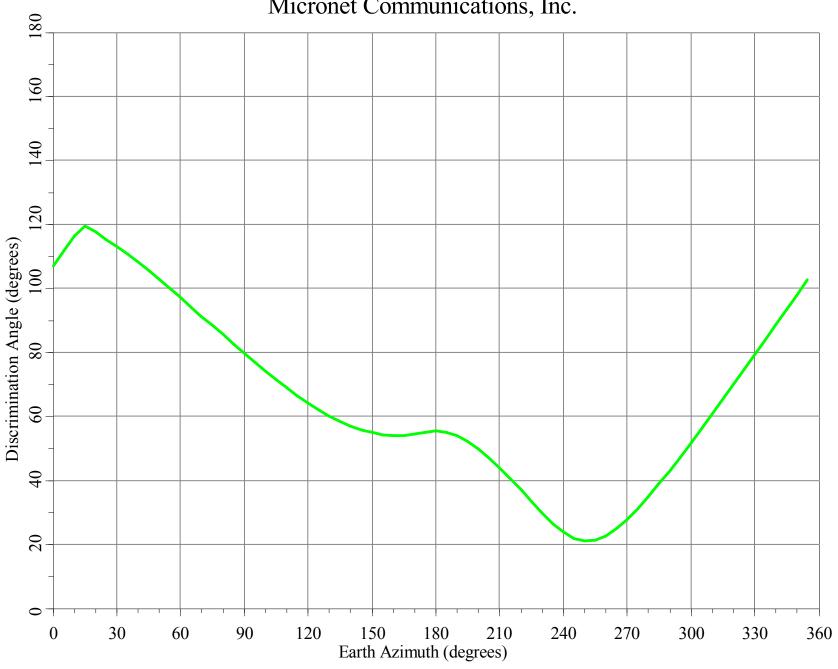
Horizon Angle & Satellite Arc for Cross City, FL Micronet Communications, Inc.



Horizon Gain for Cross City, FL Micronet Communications, Inc.

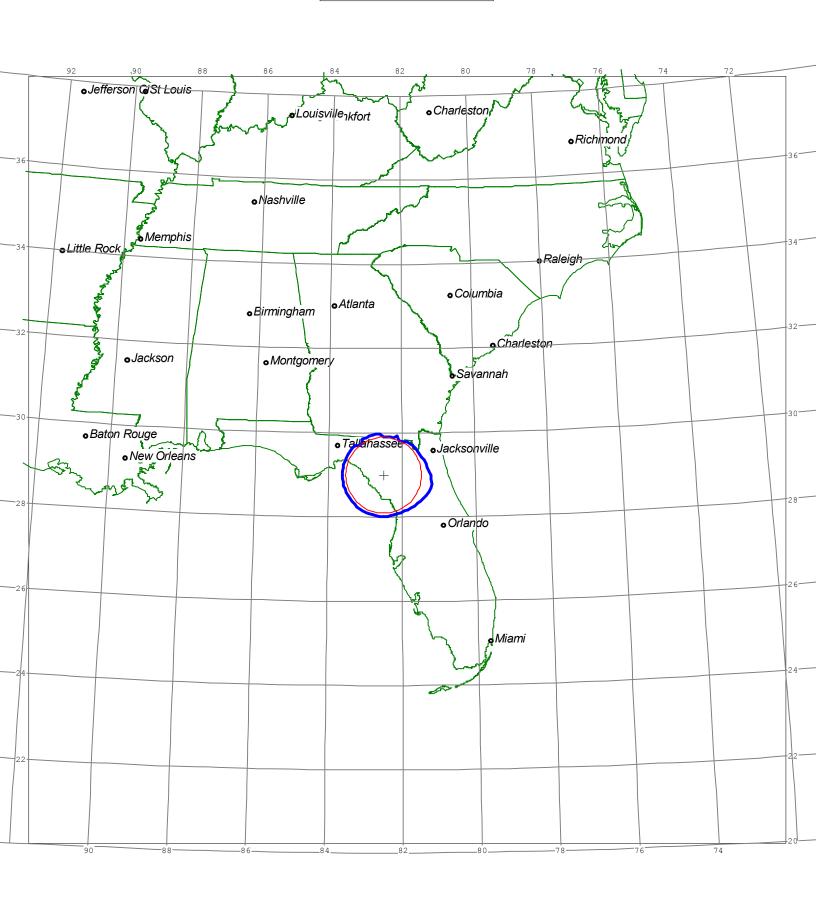


Minimum Discrimination Angles for Cross City, FL Micronet Communications, Inc.



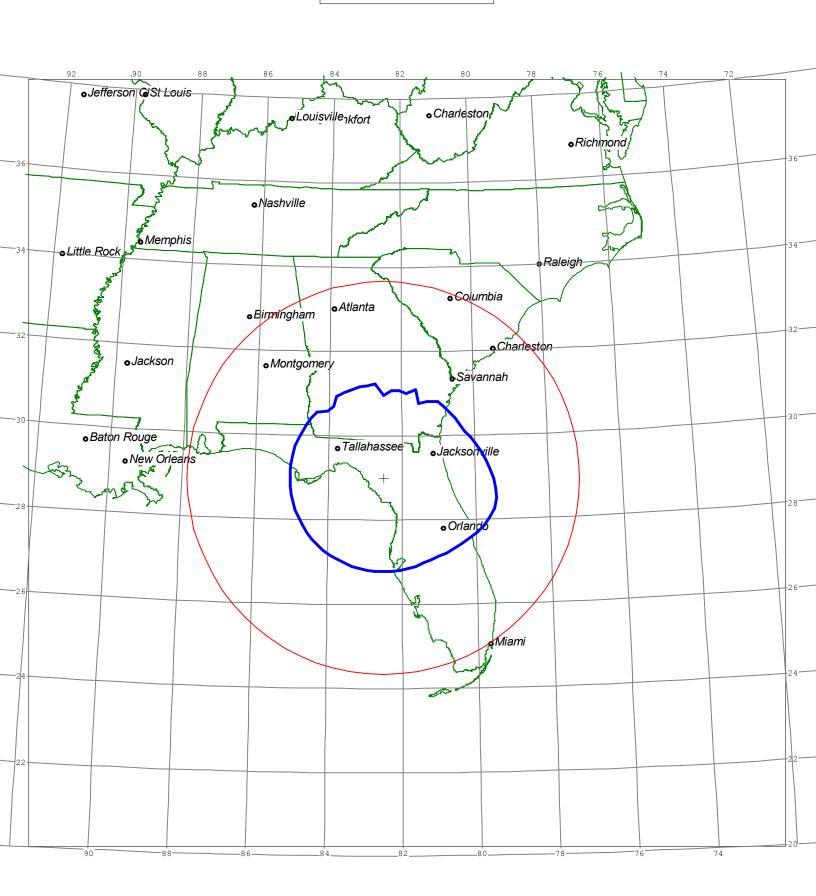
Final Contour & Rain Scatter for Cross City, FL - Transmit

Final Contour Rain Scatter



Final Contour & Rain Scatter for Cross City, FL - Receive SCALE - 1:100000000 1 inch = 157.8 miles

Final Contour Rain Scatter



HARRIS CORPORATION FCC FORM 312 NEW EARTH STATION JUNE 2013

FAA NOTIFICATION NOT REQUIRED

FAA notification is not required pursuant to 47 C.F.R. § 17.7(a), because the antenna is less than 6.1 meters in height above ground level.



Red Light Display System

FCC | Fees | Red Light Display System

Logged in as: HARRIS CORPORATION (FRN: 0003791472) [Log Out]

Print | Help

6/7/2013 1:20 PM

Current Status of FRN 0003791472

STATUS: Green

You have no delinquent bills which would restrict you from doing business with the FCC.

The Red Light Display System checks all FRNs associated with the same Taxpayer Identification Number (TIN). A green light means that there are no outstanding delinquent non-tax debts owed to the Commission by any FRN associated with the requestor's TIN. The Red Light Display System was last updated on 06/07/2013 at 6:39 AM; it is updated once each business day at about 7 a.m., ET.

		er		

Red Light Help FCC Debt Collection FCC Fees Web Policies / Privacy Policy

Red Light Display System Help Line: (877) 480-3201, option 4, 4; TTY (202) 414-1255 (Mon.-Fri. 8 a.m.-6:00 p.m. ET)

Red Light Display System has a dedicated staff of customer service representatives standing by to answer your questions or concerns. You can email us at arinquiries@fcc.gov or fax us at (202) 418-7869 <a href="mailto:arinquir