Approved by OMB 3060-0678

Date & Time Filed: Feb 28 2013 7:12:35:983PM

File Number: SES-MOD-INTR2013-00497

FCC AF	PLICATION FOR SI AMI	PACE AND E	ARTH STAT RM	ION:MOD OR	FCC Use Only						
	FCC 312 MAIN FO	RM FOR OFFI	CIAL USE ONL	v	ree ese omy						
APPLICA	PPLICANT INFORMATION										
Fairbanks	Earth Station Modifica	ion									
1-8. Legal I	Name of Applicant		DI								
Name:	DG Consents Sub, Inc		Phone Number:	303-684-4000							
DBA Name:			Fax Number:	303-684-4340							
Street:	1601 Dry Creek Drive		E-Mail:	scedars@digital	globe.com						
City:	Longmont		State:	СО							
Country:	USA		Zipcode:	80503 -							
Attention:	Mr. Seth Cedars										
9-16. Name Name: Company:	of Contact Representative Stephen D. Baruch Lerman Senter PLLC	P F	hone Number: ax Number:	202-416-6782	2						
Street:	2000 K Street, NW Suite 600		E-Mail:	sbaruch@lern	nansenter.com						
City:	Washington	S	tate:	DC							
Country:	ountry: USA		Cipcode:	20006-							
Attention:		R	elationship:	Legal Counse	1						
CLASSIF	ICATION OF FILIN	Ľ									
 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. a1. Earth Station a2. Space Station (N/A) b1. Application for License of New Station (N/A) b2. Application of License or Registration b5. Assignment of License or Registration b5. Assignment of License or Registration 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 (N/A) b10. Other (Please specify) (N/A) 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 If Yes, o	If Yes, complete and attach FCC Form 159.										

If No.	indicate reason	for fee	exemption	(see 47	C.F.R	Section	1.1114).
<u>, 11 110</u>	malcale reason	IOI ICC	exemption	(300 - 7	C.I .I	.beenon	1.1117).

• Governmental Entity • Noncommercial educational licensee

0	Other(please	expl	lain):
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17d.

Fee Classification CGX - Fixed Satellite Transmit/Receive Earth Station

18. If this filing is in reference to an existing station, enter:	19. If this filing is an amendment to a pending application enter both fields, if this filing is a modification please enter only the file number:					
(a) Call sign of station: E950499	(a) Date pending application was filed:	(b) File number:				
		SESMOD2007082401119				

TYPE OF SERVICE

20. INATURE OF SERVICE: This filling is for an authorization to provide or use the following type(s) of service(s): Select all that
appiy.
a Fixed Satellite
b Mobile Satellite
C Radiodetermination Satellite
Image: Real-operation Satellite
e Direct to Home Fixed Satellite
D f Digital Audio Radio Service
\Box g Other (nlease specify)
21. STATUS: Choose the button next to the applicable status.
Choose only one.
Using Non-U.S. licensed satellites
23. If applicant is providing INTERNATIONAL COMMON CARRIER service, see instructions regarding Sec. 214 filings. Choose
one. Are these facilities:
Connected to a Public Switched Network V Not connected to a Public Switched Network V/A
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: 2042 Frequency Upper: 8400 (Please specify additional 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
• 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 O Transmit-Only O Receive-Only N/A
"For Space Station applications, select 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.)

a -- authorization to add new emission designator and related service

b -- authorization to change emission designator and related service

X c -- authorization to increase EIRP and EIRP density

d authorization to replace antenna
e authorization to add antenna
\square f authorization to relocate fixed station
\Box g authorization to change frequency(ies)
■ h authorization to add frequency
i authorization to add Points of Communication (satellites & countries)
j authorization to change Points of Communication (satellites & countries)
\Box k authorization for facilities for which environmental assessment and radiation hazard reporting is required
1 authorization to change orbit location
m authorization to perform fleet management
n authorization to extend milestones
o Other (Please specify)

ENVIRONMENTAL POLICY

28. Would a Commission grant of any proposal in this application or amendment have a significant O Yes ♥ No 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, **Rad Haz Study** 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?	O _{Yes} ● _{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} ● _{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} ● _{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} O _{No} ● _{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	

BASIC QUALIFICATIONS

they own or vote.

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 attemptiing 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.	O Yes ● No
42b. What administration has licensed or is in the process of licensing the space station? If no license wil administration has coordinated or is in the process of coordinating the space station?	l be issued, what
43. Description. (Summarize the nature of the application and the services to be provided). See Attachn	nent A.Attachment A
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.

44. Applicant is a (an): (Choose the button next to applicable respo	onse.)
 Individual Unincorporated Association 	
Partnership Corporation	
• Governmental Entity • Other (please specify)	
45. Name of Person Signing Yancey L. Spruill	46. Title of Person Signing Treasurer

WILLFUL FALSE STATEMENTS MADE ON THIS FORM ARE PUNISHABLE BY FINE AND / OR

IMPRISONMENT (U.S. Code, Title 18, Section 1001), AND/OR REVOCATION OF ANY STATION AUTHORIZATION (U.S. Code, Title 47, Section 312(a)(1)), AND/OR 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 Stati	ion Site					
E1: Site Identifier:	E950	E950499				
E2: Contact Name	Remote Control Point	E6. Phone Number:	907-4	457-1692		
E3. Street:	3 Mile, Chena Hot Springs Road	E7. City:	Fairb	anks		
		E8. County:	North	th Star		
E4. State	AK	E9. Zip Code	9971	2		
E10. Area of Operatio	n:	N/A				
E11. Latitude:	64 ° 53 ' 26.0 " N					
E12. Longitude:	147 ° 31 ' 44.0 " W					
E13. Lat/Lon Coordin	ates are:	⁰NAD-27	®NA	AD-83	⁰ _{N/A}	
E14. Site Elevation (A	MSL):	215.0 meters				
E15. If the proposed an do(es) the proposed an (b) as demonstrated by analysis showing comp	ntenna(s) operate in the Fixed Satellite Service (F tenna(s) comply with the antenna gain patterns sp the manufacturer's qualification measurement? I pliance with two-degree spacing policy.	SS) with geostationary sat pecified in Section 25.209 f NO, provide as a technic	tellites, (a) and cal	o _{Yes} o	No ♥N/A	
E16. If the proposed an the Fixed Satellite Serv with the antenna gain p manufacturer's qualific	ntenna(s) do not operate in the Fixed Satellite Service (FSS) with non-geostationary satellites, do(e batterns specified in Section 25.209(a2) and (b) as eation measurements?	vice (FSS), or if they oper s) the proposed antenna(s) s demonstrated by the	ate in comply	● _{Yes} O	No O _{N/A}	
E17. Is the facility ope control point.	rated by remote control? If YES, provide the loca	ation and telephone number	er of the	• Yes	o _{No}	
E18. Is frequency of as Coordination Re	coordination required? If YES, attach a freport	requency coordination	report	• Yes	o _{No}	
E19. Is coordinatio country(ies) and pl	n with another country required? If YES ot of coordination contours as	, attach the name of th	ie	• Yes	• No	
E20. FAA Notifica FAA notification i 854 and/or the FA aviation? FAILURE TO CO THE RETURN O	• Yes	• No				
POINTS OF COMMU	JNICATION					
Satellite Name:Geo	ollowing:					
E21. Common Nar						
E23. Orbit Locatio						
Satellite Name:OT	wing:					
E21. Common Nar	ne: WORLDVIEW-3	E2	2. ITU	Name:		
F23 Orbit Locatio	ntrv.					

Satellite N	ame:OTHER	0	ΓHER	If you	u selected O'	ΓHI	ER, ple	ease	er	nter the fol	lov	ving:			
E21. Common Name: IKONOS									E22. ITU Name:						
E23. Orbit	Location: No	GSO)]]	E24. Coun	ntry	: USA			
Satellite N	ame:GeoEye	2 0	GeoEye	2 N	GSO If you	sele	ected C	TH	EF	R, please e	nte	r the f	ollowing:		
E21. Com	mon Name:							E22	2. I	ITU Name	:				
E23. Orbit	Location:							E24	1. (Country:					
POINTS OF	COMMUNIC	ATIC)N (Dest	inatio	n Points)										
E25. Site I	dentifier:								<u> </u>						
E26. Com	mon Name:								E	27. Count	ry:				
ANTENNA	F 29	 		1			1			E22	<u> </u>	E 41			
Site ID	E28. Antenna Id] Qu	E 29. antity	E30.	Manufactu	rer	E31 Mod	el	A	E32. E41/42. Antenna Gain Antenna Size (dBi at GHz)				na Gain or Recieve GHz)	
Fairbanks ES	1	1		DAT CO	RON/TRAN	1S	8300	,	7.3	3	40	.3 dBi	at 2.0250		
Fairbanks ES	1	1		DAT CO	RON/TRAN	١S	8300	ļ	7.3	3	51	.5 dBi	at 8.0000		
E28. Antenna Id	E33/34. Diameter Minor/Maj (meters)	r jor	E3 Abo Grou Lev (met	5. ove und vel ers)	E36. Above Sea Level (meters)		E37. Buildin Heigh Abov Groun Leve (meter	ng it e id l		E38. Tota Input Power at antenna flange (Watts)	al E39. Maximum t Antenna Height Above Rooftop (meters)		E39. aximum atenna ht Above ooftop neters)	E40. Total EIRP for al carriers (dBW)	
1	0.0/0.0		6.0		221.0	0.0)		11.0		0.0			51.0	
FREQUENC	CY			1											
E28. Antenna Id	E43/44. Frequence Bands(MH	cy Hz)	E45. T/R Mode	E4 Pa (1	6. Antenna Darization H,V,L,R)		E4 Emis Desigr	7. sion 1ato	ı or	E48. Ma EIRI Carrier	axi P p r(d	mum er BW)	E49. M ERIP D Carrier(d	E49. Maximum ERIP Density per Carrier(dBW/4kHz)	
1	8135.000 8285.000		R	Left Circu	and Right 11ar	1.	50MG	1D	0.0		0.0				
E50. Modu	ilation and Se	ervic	es QPS	K, Da	ata					-1r					
1	8025.0000 8395.0000		R	Left Circı	and Right 11ar	37	70MG1D		0.0		0.0				
E50. Modu	ilation and Se	ervic	es QPS	K, Da	ata					-11					
1	8345.9680 8346.0320		R	Righ Circı	t Hand ılar	64	64K0G1D			0.0		0.0			
E50. Modu	ulation and Se	ervic	es Imag	ge Da	ta					-10					
1	8385.9400 8386.0600		R	Right Hand Circular		12	120KG1D			0.0		0.0			
E50. Modu	ulation and Se	ervic	es QPS	K, Te	elemetry					-1					
1	8393.9705 8394.0295		R	Right Hand Circular			59K7G1D			0.0			0.0		
E50. Modu	ulation and Se	ervic	es QPS	K, Te	elemetry										
1	2042.0000 2042.0000		Т	Righ Circu	t Hand ılar	68	8K0G2	2D		51.0			51.0		
	-11		•										1 		

E50. Moc	lulation and Se	rvices BPSk	K (TT&C)					
1	2052.0000 2052.0000	T	Right Hand Circular	1M32G1E	51.0		39.0	
E50. Moc	lulation and Se	rvices BPSk	K (TT&C)					
1	2052.0000 2052.0000	T	Right Hand Circular	68K0G2D	51.0		51.0	
E50. Moc	lulation and Se	rvices BPSk	K (TT&C)					
1	2092.6000 2092.6000	T	Right Hand Circular	1M32G1E	51.0		39.0	
E50. Moc	lulation and Se	rvices BPSF	K (TT&C)					
1	2042.0000 2042.0000	T	Right Hand Circular	NON	51.0		51.0	
E50. Moc	lulation and Se	rvices Unmo	odulated Carrier					
1	2052.0000 2052.0000	T	Right Hand Circular	NON	51.0		51.0	
E50. Moc	lulation and Se	rvices Unmo	odulated Carrier					
1	2092.6000 2092.6000	T	Right Hand Circular	NON	51.0		51.0	
E50. Moc	lulation and Se	rvices Unmo	odulated Carrier					
FREQUENCY COORDINATION								
				E56.	F57	E58.	E50	E60.
E28. Antenna Id	E51. Satellite Orbit Type	E52/53. Frequency Limits (MHz)	E54/55. Range of Satellite Arc Eastern/Western Limit	Earth Station Azimuth Angle Eastern Limit	Antenna Elevation Angle Eastern Limit	Earth Station Azimuth Angle Western Limit	E59. Antenna Elevation Angle Western Limit	Maximum EIRP Density toward the Horizon (dBW/4kHz)
E28. Antenna Id	E51. Satellite Orbit Type Non- Geostationary	E52/53. Frequency Limits (MHz) 2042.0000 2042.0000	E54/55. Range of Satellite Arc Eastern/Western Limit 0.0/0.0	Earth Station Azimuth Angle Eastern Limit	Antenna Elevation Angle Eastern Limit	Earth Station Azimuth Angle Western Limit 360.0	Antenna Elevation Angle Western Limit	Maximum EIRP Density toward the Horizon (dBW/4kHz) 24.4
E28. Antenna Id	E51. Satellite Orbit Type Non- Geostationary Non- Geostationary	E52/53. Frequency Limits (MHz) 2042.0000 2042.0000 2052.0000 2052.0000	E54/55. Range of Satellite Arc Eastern/Western Limit 0.0/0.0	Earth Station Azimuth Angle Eastern Limit 0.0	Antenna Elevation Angle Eastern Limit 5.0	Earth Station Azimuth Angle Western Limit 360.0 360.0	Antenna Elevation Angle Western Limit 5.0 5.0	Maximum EIRP Density toward the Horizon (dBW/4kHz) 24.4 24.4
E28. Antenna Id	E51. Satellite Orbit Type Non- Geostationary Non- Geostationary Non- Geostationary	E52/53. Frequency Limits (MHz) 2042.0000 2042.0000 2052.0000 2052.0000 2092.6000	E54/55. Range of Satellite Arc Eastern/Western Limit 0.0/0.0 0.0/0.0	Earth Station Azimuth Angle Eastern Limit 0.0 0.0	Antenna Elevation Angle Eastern Limit 5.0 5.0	Earth Station Azimuth Angle Western Limit 360.0 360.0	Antenna Elevation Angle Western Limit 5.0 5.0	Maximum EIRP Density toward the Horizon (dBW/4kHz) 24.4 24.4 24.4
E28. Antenna Id	E51. Satellite Orbit Type Non- Geostationary Non- Geostationary Non- Geostationary	E52/53. Frequency Limits (MHz) 2042.0000 2042.0000 2052.0000 2052.0000 2092.6000 2092.6000 NT LOCATIO	E54/55. Range of Satellite Arc Eastern/Western Limit 0.0/0.0 0.0/0.0 0.0/0.0	Earth Station Azimuth Angle Eastern Limit 0.0 0.0	Antenna Elevation Angle Eastern Limit 5.0 5.0	Earth Station Azimuth Angle Western Limit 360.0 360.0 360.0	Antenna Elevation Angle Western Limit 5.0 5.0	Maximum EIRP Density toward the Horizon (dBW/4kHz) 24.4 24.4 24.4
E28. Antenna Id 1 REMOTE E61. Call S NOTE: Ple application E62. Street 1601 Drv	E51. Satellite Orbit Type Non- Geostationary Non- Geostationary Non- Geostationary CONTROL POI ign ase enter the calls is being filed. Address	E52/53. Frequency Limits (MHz) 2042.0000 2042.0000 2052.0000 2052.0000 2092.6000 NT LOCATIC ign of the cont	E54/55. Range of Satellite Arc Eastern/Western Limit 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0	Earth Station Azimuth Angle Eastern Limit 0.0 0.0 0.0	Antenna Elevation Angle Eastern Limit 5.0 5.0 5.0	Earth Station Azimuth Angle Western Limit 360.0 360.0 360.0	Antenna Elevation Angle Western Limit 5.0 5.0 5.0 Phone Numb 684-4587	Maximum EIRP Density toward the Horizon (dBW/4kHz) 24.4 24.4 24.4
E28. Antenna Id	E51. Satellite Orbit Type Non- Geostationary Non- Geostationary Non- Geostationary CONTROL POI ign ase enter the calls is being filed. Address	E52/53. Frequency Limits (MHz) 2042.0000 2042.0000 2052.0000 2052.0000 2092.6000 NT LOCATIC ign of the cont	E54/55. Range of Satellite Arc Eastern/Western Limit 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 DN	Earth Station Azimuth Angle Eastern Limit 0.0 0.0 0.0	Antenna Elevation Angle Eastern Limit 5.0 5.0 5.0	Earth Station Azimuth Angle Western Limit 360.0 360.0 360.0 E66. 303-	Antenna Elevation Angle Western Limit 5.0 5.0 5.0 Phone Numb 684-4587	Maximum EIRP Density toward the Horizon (dBW/4kHz) 24.4 24.4 24.4

FCC NOTICE REQUIRED BY THE PAPERWORK REDUCTION ACT

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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.

Attachment A

DG Consents Sub, Inc. Earth Station Modification Application February 2013 Page 1 of 1

Description of Request

With this application, DG Consents Sub, Inc. ("DG Consents") requests modification of its earth station located in Fairbanks, Alaska (Call Sign E950499) to permit communications with the GeoEye-1, GeoEye-2 and IKONOS space stations, licensed to GeoEye License Corp. ("GeoEye License"). Following a merger between DigitalGlobe Inc. and GeoEye, Inc., the parent companies of DG Consents and GeoEye License respectively, GeoEye License became a wholly-owned indirect subsidiary of DigitalGlobe, Inc. See SES-T/C-20120817-00761 (granted Jan. 10, 2013).

The frequencies requested in the attached FCC Form 312, Schedule B will be added to the frequencies already authorized for operations from Fairbanks. In addition, the Fairbanks earth station will continue to be used to communicate with all satellites of DG Consents' Earth Exploration Satellite Service ("EESS") system (i.e., QuickBird, WorldView-1, and WorldView-2), as well as with the WorldView-3 satellite recently authorized for addition to DG Consents' fleet of EESS space stations. *See* FCC File No. SAT-MOD-20120710-00111 (granted Jan. 24, 2013).

RADIATION HAZARD STUDY DIGITALGLOBE, FAIRBANKS EARTH STATION

When applying for a license to construct and operate, modify, or renew an earth station, it is understood that licensees must certify whether grant of the application will have significant environmental impact as defined in the Federal Communications Commission's (FCC) rules, 47 C.F.R., Section 1.1307.

In this report DigitalGlobe, Inc. analyzes the maximum radiofrequency (RF) levels emitted from the satellite communications antenna described below. The reference document for this study is OET Bulletin No. 65, Edition 97-01, Evaluating Compliance with FCC Guidelines for Human Exposure to Radiofrequency Electromagnetic Fields, August 1997.

ANTENNA NEAR-FIELD POWER DENSITY CALCULATION

The extent of the near-field is defined by the following equation:

Rnear = $(Dant)^2 / (4 \lambda)$

where: Rnear = extent of the near-field (in meters)

Dant = diameter of the antenna main reflector (in meters)

 λ = wavelength of the RF transmit frequency (in meters)

The maximum on-axis power density within near-field is defined by the following equation:

Snear = {(16 η Pfeed) / [π (Dant)²]} / 10

where: Snear = maximum on-axis power density within the near-field (in

milliwatts per square centimeter)

 η = antenna aperature efficiency

Pfeed = maximum power into antenna feed flange (in watts)

Dant = diameter of the antenna main reflector (in meters)

ANTENNA FAR-FIELD POWER DENSITY CALCULATION

The distance to the beginning of the far-field region is defined by the following equation:

Rfar = $[0.6(Dant)^2] / \lambda$

where: R_{far} = distance to beginning of far-field (in meters)

Dant = diameter of the antenna main reflector (in meters)

 λ = wavelength of the RF transmit frequency in (meters)

The maximum on-axis power density within the far-field is defined by the following equation:

Sfar = [(Pfeed Gant) / 4 π (Rfar)²] / 10

where: S_{far} = maximum on-axis power density in the far-field (in milliwatts per square centimeter)

Pfeed = maximum power into antenna feed flange (in watts)

G_{ant} = antenna main beam gain at RF transmit frequency (in watts) R_{far} = distance to beginning of far-field (in meters)

ANTENNA TRANSITION REGION POWER DENSITY CALCULATION

By definition, the maximum on-axis power densitiy in the transition region will never be greater than the maximum on-axis power densities in the near-field:

 $Str \leq Snear$

where: Str = maximum on-axis power density in the transition region (in milliwatts per square centimeter) Snear = maximum on-axis power density in the near-field (in milliwatts per square centimeter)

ANTENNA FEED-FLANGE (OR SUBREFLECTOR) POWER DENSITY CALCULATION

The maximum power density at the antenna feed-flange (or subreflector surface) is defined by the following equation:

Sfeed(sub) = 1000 {[2(Pfeed)] / {[π (Dfeed(sub))²] / 4}}

where: Sfeed(sub) = maximum power density at the antenna feed-flange or subreflector surface (in milliwatts per square centimeter) Pfeed = maximum power into antenna feed flange (in watts) Dfeed(sub) = diameter of the antenna feed-flange or subreflector (in centimeters)

ANTENNA MAIN REFLECTOR POWER DENSITY CALCULATION

The maximum power density in the main reflector region of the antenna is defined by the following equation:

Sant = { $[2(P_{feed})] / {[\pi (D_{ant})^2] / 4} } / 10$

where: Sant = maximum power density in the antenna main reflector region (in milliwatts per square centimeter)

P_{feed} = maximum power into antenna feed flange (in watts)

D_{ant} = diameter of the antenna main reflector (in meters)

Power Density Calculation between the Antenna Main Reflector and the Ground

The maximum power density between the antenna main reflector and the ground is defined by the following equation:

Sground = {Pfeed / {[π (Dant)²] / 4}} / 10

where: Sground = maximum power density between the antenna main reflector and the ground (in milliwatts per square centimeter) Pfeed = maximum power into antenna feed flange (in watts) Dant = diameter of the antenna main reflector (in meters)

SUMMARY OF CALCULATED RADIATION LEVELS

DigitalGlobe, Inc. understands the licensee must ensure people are not exposed to harmful levels of radiation.

Maximum permissible exposure (MPE) limits for general population/uncontrolled exposure were not considered in this analysis for several reasons. The main-beam height above ground, minimum 5 degree elevation above horizon transmit inhibit mask and tracking motion of this highly directional antenna significantly limit exposure to the general population. Furthermore, access to DigitalGlobe earth stations is limited to authorized personnel who have been appropriately briefed and advised.

MPE limits for occupational/controlled exposure, however, were considered in this analysis. It is standard practice for our technical staff to cease transmissions whenever maintenance is performed in close proximity to antenna reflector regions with potentially hazardous power density levels. Based on the results (see attached page entitled "Radiation Hazard Calculations") and our standard practices within our controlled antenna environment, the earth station operators / technicians should not be exposed to radiation levels exceeding 5 mW/cm2 power density over a six minute averaging time.

CERTIFICATION

I hereby certify that I am the technically qualified person responsible for preparation of the engineering information contained in this radiation hazard assessment, that I have reviewed the engineering information submitted, and that it is complete and accurate to the best of my knowledge.

David D. Greenidge Mgr. Remote Ground Systems DigitalGlobe, Inc.

Radiation Hazard Calculations

DigitalGlobe Fairbanks Earth Station		
Antenna Diameter	7.3 m	
Feed-Flange or subreflector diameter	8.25 cm	
Transmit Frequency	2025 Mhz	
Maximum power into antenna feed-flange (watts)	50 W	
Antenna Gain	40.3 dBi	
Antenna aperture efficiency	0.55	
Maximum power into antenna feed (dBm)	46.99 dBm	
EIRP (dBm)	87.29 dBm	
EIRP (watts)	535759.65 W	
Wave length	0.15 m	
Near field extent	89.93 m	
Beginning of far field	215.82 m	
Maximum on-axis power density far field	0.09 mW/cm^2	Satisfies MPE Limits
Maximum on-axis power density near field	0.26 mW/cm^2	Satisfies MPE Limits
Maximum on-axis power density transition region	0.26 mW/cm^2	Satisfies MPE Limits
Maximum power density feed-flange	1870.69 mW/cm^2	Potential Hazard
Maximum power density main reflector region	0.24 mW/cm^2	Satisfies MPE Limits

Maximum power density between main reflector and ground

0.12 mW/cm^2

Satisfies MPE Limits

FREQUENCY COORDINATION AND INTERFERENCE ANALYSIS REPORT

Prepared for DG Consents Sub, Inc. FAIRBANKS, AK Satellite Earth Station

Prepared By: COMSEARCH 19700 Janelia Farm Boulevard Ashburn, VA 20147 February 27, 2013

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1. CONCLUSIONS

An interference study considering all existing, proposed and prior coordinated microwave facilities within the coordination contours of the existing earth station demonstrates that the proposed modifications will operate satisfactorily with the common carrier and broadcast microwave environment. Further, there will be no restrictions of its operation due to interference considerations.

2. SUMMARY OF RESULTS

A number of great circle interference cases were identified during the interference study of the proposed earth station. Each of the cases, which exceeded the interference objective on a line-of-sight basis, was profiled and the propagation losses estimated using NBS TN101 (Revised) techniques. The losses were found to be sufficient to reduce the signal levels to acceptable magnitudes in every case.

3. SUPPLEMENTAL SHOWING

Pursuant to Part 25.203(c) of the FCC Rules and Regulations, the satellite earth station proposed in this application was coordinated by Comsearch using computer techniques and in accordance with Part 25 of the FCC Rules and Regulations.

Coordination data for this earth station was sent to the below listed carriers with a letter dated 02/15/2013.

Company 3G Wireless, LLC **AERIAL VIDEO SYSTEMS** AT&T California Affiliated Media, Inc. FCC Trust Alascom Inc Alaska Public Telecommunications, Inc. Ascent Media Network Services, LLC Bellsouth Telecommunications, Inc. Borgeson, Tom R. Broadcast Sports Inc. CHENA BROADCASTING, LLC CNG Communications, Inc. Carolina Telephone and Telegraph Co Casper, John CenturyTel of the Southwest, Inc. Channel 2 Broadcasting Co. - KTUU TV Chicago Comnet Corp Cincinnati Bell Wireless LLC Citywide News Network, Inc. Coastal Television Broadcasting Company Cohen, Elana Cowboys Stadium LP DCI II. INC. Direct Broadcast Services, Inc. GOODYEAR TIRE AND RUBBER COMPANY GSN New. Inc **Global Microwave Systems Inc** HF Enterprises, Inc Hallco Unlimited. Inc. Hawaiian Telcom, Inc. Heiden, William Illinois Bell Telephone Company Indiana Bell Telephone Company Information & Display Systems, Inc. Information Super Station, LLC International Communications Group, Inc. Kentucky RSA #3 Cellular General Partner Kentucky RSA #4 Cellular General Partner MERCURY COMMUNICATIONS Metro Networks Communications, Inc.

Michigan Bell Telephone Company Moreen, Steven K NEW ENGLAND DIGITAL DISTRIBUTION, INC. NEW ENGLAND SATELLITE SYSTEMS INC NSM Surveillance Navajo Communications Company NorthWest Suburbs Community Access Corp Northern Lights Media, Inc. Ohio Bell Telephone Company On Scene Video Production Onboard Images Penn Service Microwave Co., Inc. Plateau Telecommunications, Inc. Plum TV, LLC Production & Satellite Services, Inc. Public Television Communications Center QUICK LINK CONNECTIONS INC QWEST CORPORATION RCC Minnesota Inc. - MN NE ND SD REMOTE FACILITIES CONSULTING SERVICES RF Central, LLC RF Film, Inc Radiofone, Inc. Randy Hermes Production Regulus Media Services, Inc. Remote Broadcasts, Inc. SBE Regional Coordinator Southwestern Bell Telephone L.P. Speedshotz, Inc State of Alaska Total RF Marketing Inc Unisat, Inc. United Telephone - Southeast VERIZON SOUTH INC. **VISION ALASKA I LLC** Verizon California Inc. Verizon Maryland, Inc. Verizon New England Inc. Verizon New Jersey, Inc. Verizon New York, Inc. Verizon North Inc. Verizon Northwest Inc. Verizon Pennsylvania, Inc. Verizon Virginia, Inc. Verizon Washington DC, Inc. Village Video Productions Inc Vyvx, LLC Westar Satellite Services LP Western Technical Services Wexler Video, Inc. Winged Vision Inc Wisconsin Bell, Inc.

4. EARTH STATION COORDINATION DATA

This section presents the data pertinent to frequency coordination of the proposed modifications to the earth station that was circulated to all carriers within its coordination contours.

COMSEARCH

Earth Station Data Sheet

19700 Janelia Farm Boulevard, Ashburn, VA 20147 (703)726-5500 http://www.comsearch.com

Date: 0 Job Number: 1		02/25/2013 130215COMSGE03					
Administrative Infor	mation						
Status	ination	ENGI	NEER PROPOSAL				
Call Sign E9		E9504	199				
Licensee Code		DBCC	IBCONS				
		000					
Site Information		FAIR	BANKS, AK				
Latitude (NAD 83)		64° 53	3' 26 0" N				
Longitude (NAD 83)		147° 3	81' 44.0" W				
Climate Zone		А					
Rain Zone 2		2					
Ground Elevation (AMS)	L)	215.0	m / 705.4 ft				
Link Information							
Satellite Type		Low E	arth Orbit				
Modulation		TO - I Digita	ransmit-Only				
Minimum Elevation And	le	3 0°					
Azimuth Range 0.0°		0.0° to) 360°				
Antenna Centerline (AGL) 6.0 r		6.0 m	/ 19.7 ft				
Antenna Information			Transmit - FCC32				
Manufacturer			Datron				
Model			7.3 Meter				
Gain / Diameter			40.3 dBi / 7.3 m				
3-dB / 15-dB Beamwidth	1		1.40° / 2.80°				
Max Available RF Power	(dBW/4 kł	Hz)	10.7				
	(dBW/MH	z)	34.7				
Maximum FIRP	(dBW/4 kł	Hz)	51.0				
	(dBW/MH	z)	75.0				
Interference Objectives	l ong Term		-154.0 dBW/4 kHz 20%				
	Short Term		-131.0 dBW/4 kHz 0.0025%				
Frequency Information Emission / Frequency Range (MHz)			Transmit 2.0 GHz NON - 68K0G2D / 2042.0 - 2042.0 NON, 68K0G2D, 1M32G1D / 2052.0 - 2052.0 250KFXD - 1M32G1D / 2085.6875 - 2085.6875 NON - 1M32G1D / 2092.6 - 2092.6 250KFXD - 1M32G1D / 2094.896 - 2094.896				
Max Great Circle Coordinatio Precipitation Scatter Contour	n Distance Radius		534.0 km / 331.8 mi 610.2 km / 379.1 mi				

COMSEARCH

Earth Station Data Sheet

19700 Janelia Farm Boulevard, Ashburn, VA 20147 (703)726-5500 http://www.comsearch.com

Coordination Values	FAIRBANKS, AK	
Licensee Name	DG Consents Sub, Inc.	
Latitude (NAD 83)	64° 53' 26.0" N	
Longitude (NAD 83)	147° 31' 44.0" W	
Ground Elevation (AMSL)	215.0 m / 705.4 ft	
Antenna Centerline (AGL)	6.0 m / 19.7 ft	
Antenna Model	Datron 7.3 Meter	
Antenna Mode	Transmit 2.0 GHz	
Interference Objectives: Long Terr	m -154.0 dBW/4 kHz	20%
Short Ter	m -131.0 dBW/4 kHz	0.0025%
Max Available RF Power	10.7 (dBW/4 kHz)	

			Transm	it 2.0 GHz	
	Horizon	Antenna	Horizon	Coordination	
Azimuth (°)	Elevation (°)	Discrimination (°)	Gain (dBi)	Distance (km)	
0	3.81	46.32	7.00	534.00	
5	3.77	43.06	7.00	534.00	
10	3.62	40.00	7.00	534.00	
15	3.57	37.36	7.00	534.00	
20	3.09	34.77	7.00	534.00	
25	2.36	32.42	7.00	534.00	
30	2.46	31.44	7.00	534.00	
35	2.16	30.77	7.00	534.00	
40	2.04	31.00	7.00	534.00	
45	2.56	32.55	7.00	534.00	
50	2.20	33.90	7.00	534.00	
55	1.96	35.95	7.00	534.00	
60	1.80	38.53	7.00	534.00	
65	1.33	41.30	7.00	534.00	
70	1.23	44.65	7.00	534.00	
75	1.14	48.23	7.00	534.00	
80	1.07	52.02	7.00	534.00	
85	0.72	55.83	7.00	534.00	
90	0.55	59.86	7.00	534.00	
95	0.60	64.04	7.00	534.00	
100	0.49	68.24	7.00	534.00	
105	0.00	72.44	7.00	534.00	
110	0.00	76.78	7.00	534.00	
115	0.00	81.14	7.00	534.00	
120	0.00	85.52	7.00	534.00	
125	0.00	89.91	7.00	534.00	
130	0.00	94.30	7.00	534.00	
135	0.00	98.68	7.00	534.00	
140	0.00	103.04	7.00	534.00	
145	0.00	107.38	7.00	534.00	
150	0.00	111.69	7.00	534.00	
155	0.00	115.95	7.00	534.00	
160	0.00	120.15	7.00	534.00	
165	0.00	124.27	7.00	534.00	
170	0.00	128.29	7.00	534.00	
175	0.00	132.18	7.00	534.00	
180	0.00	135.91	7.00	534.00	
185	0.00	139.42	7.00	534.00	

COMSEARCH

Earth Station Data Sheet

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Antenna Centerline (AGL)	6.0 m / 19.7 ft	
Antenna Model	Datron 7.3 Meter	
Antenna Mode	Transmit 2.0 GHz	
Interference Objectives: Long Terr	m -154.0 dBW/4 kHz	20%
Short Ter	m -131.0 dBW/4 kHz	0.0025%
Max Available RF Power	10.7 (dBW/4 kHz)	

			Transm	it 2.0 GHz	
	Horizon	Antenna	Horizon	Coordination	
Azimuth (°)	Elevation (°)	Discrimination (°)	Gain (dBi)	Distance (km)	
190	0.00	142.65	7.00	534.00	
195	0.00	145.53	7.00	534.00	
200	0.00	147.95	7.00	534.00	
205	0.00	149.80	7.00	534.00	
210	0.24	150.74	7.00	534.00	
215	0.00	151.39	7.00	534.00	
220	0.00	151.01	7.00	534.00	
225	0.32	149.57	7.00	534.00	
230	0.86	147.28	7.00	534.00	
235	0.96	144.87	7.00	534.00	
240	0.92	142.11	7.00	534.00	
245	0.71	139.10	7.00	534.00	
250	0.43	135.81	7.00	534.00	
255	0.71	131.98	7.00	534.00	
260	0.73	128.13	7.00	534.00	
265	1.11	124.02	7.00	534.00	
270	0.97	120.01	7.00	534.00	
275	1.07	115.83	7.00	534.00	
280	1.13	111.62	7.00	534.00	
285	1.39	107.32	7.00	534.00	
290	1.49	103.03	7.00	534.00	
295	1.51	98.73	7.00	534.00	
300	1.70	94.40	7.00	534.00	
305	2.21	90.09	7.00	534.00	
310	2.41	85.80	7.00	534.00	
315	2.44	81.53	7.00	534.00	
320	2.73	77.31	7.00	534.00	
325	3.09	73.17	7.00	534.00	
330	3.74	69.17	7.00	534.00	
335	3.65	65.07	7.00	534.00	
340	3.59	61.05	7.00	534.00	
345	3.78	57.21	7.00	534.00	
350	3.90	53.47	7.00	534.00	
355	3.72	49.73	7.00	534.00	

5. CERTIFICATION

I HEREBY CERTIFY THAT I AM THE TECHNICALLY QUALIFIED PERSON RESPONSIBLE FOR THE PREPARATION OF THE FREQUENCY COORDINATION DATA CONTAINED IN THIS APPLICATION, THAT I AM FAMILIAR WITH PARTS 101 AND 25 OF THE FCC RULES AND REGULATIONS, THAT I HAVE EITHER PREPARED OR REVIEWED THE FREQUENCY COORDINATION DATA SUBMITTED WITH THIS APPLICATION, AND THAT IT IS COMPLETE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

BY:

Gary K. Edwards Senior Manager COMSEARCH 19700 Janelia Farm Boulevard Ashburn, VA 20147

DATED: February 27, 2013