Approved by OMB 3060-0678

### APPLICATION FOR EARTH STATION SPECIAL TEMPORARY AUTHORITY

APPLICANT INFORMATIONEnter a description of this application to identify it on the main menu: Prudhoe Bay Earth Station STA

1. Applicant

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@digitalglobe.com

City:

Longmont

State:

CO

Country:

USA

Zipcode:

80503

Attention:

Mr. Seth Cedars

Cali Sign

Grant Dat

or other identifier)

Term Dates

) | ^-----

Approved:

Applicant: DG Consents Sub, Inc.

Call Sign: E040264

File Number: SES-STA-20130228-00228

IKONOS, Call Sign S2144 NGSO satellites, on the center frequencies 2042, 2052, and 2092 MHz, May 6, 2013, to operate a fixed earth station to communicate with GeoEye-1, Call Sign S2348, and conditions: (Earth-to-space), and frequency band 8025 - 8395 MHz (space-to-Earth) under the following DG Consents Sub, Inc. (DG Consents) is granted special temporary authority from March 8, 2013, to

- 2052 MHz. DG Consents shall limit transmissions to 53.0 dBW per carrier on the center frequencies 2042 and
- DG Consents shall limit transmissions to 55.0 dBW per carrier on the center 2092 MHz MHz
- 2. DG Consents, shall not cause harmful interference to, and shall not claim protection from, interference caused to it by any other lawfully operating station and it shall cease transmission(s) immediately upon notice of such interference.
- report of interference DG Consents must immediately terminate transmissions and notify the FCC in Boulder, CO, must provide 24 X 7 contact availability at 303-684-4587. In the event that there is a The remote control point for E040264 located at 1601 Dry Creek Drive, Suite 260, Longmont,
- 4. Any action taken or expense incurred as a result of operations pursuant to this special temporary authority is solely at DG Consent's risk.

C.F.R. § 0.261, and is effective immediately. This action is issued pursuant to Section 0.261 of the Commission's rules on delegated authority, 47



2. Contact			
Name:	Stephen D. Baruch	Phone Number:	202-416-6782
Company:	Lerman Senter PLLC	Fax Number:	202-429-4626
Street:	2000 K Street, NW	E-Mail:	sbaruch@lermansenter.com
	Suite 600		<u> </u>
City:	Washington	State:	DC
Country:	USA	Zipcode:	20006 —
Attention:		Relationship:	Legal Counsel
application. Please enter 3. Reference File Number 4a. Is a fee submitted If Yes, complete and Governmental Entition Other(please explain	r only one.) ber or Submission ID d with this application? d attach FCC Form 159. If Noty  Noncommercial educa n):	o, indicate reason for fee exemptio	e file number or the IB Submission ID of the related  n (see 47 C.F.R.Section 1.1114).
4b. Fee Classification	CGX - Fixed Satellite Transm	it/Receive Earth Station	
5. Type Request			
Use Prior to Grant	<b>o</b> 0	hange Station Location	Other
6. Requested Use Prior 03/06/2013	Date		
7. CityPrudhoe Bay		8. Latitude (dd mm ss.s h)	70 13 13.6 N

9. State AK	10. Longitude
	(dd mm ss.s h) 148 23 59.2 W
11. Please supply any need attachments.	
Attachment 1: Attachment A Attachment 2: Reference	ce Copy Attachment 3:
12. Description. (If the complete description does not appear in this bo	ox, please go to the end of the form to view it in its entirety.)
See Attachment A.	
	,
13. By checking Yes, the undersigned certifies that neither applicant nor	any other party to the application is Yes No
subject to a denial of Federal benefits that includes FCC benefits pursua	int to Section 5301 of the Anti–Drug Act
of 1988, 21 U.S.C. Section 862, because of a conviction for possession See 47 CFR 1.2002(b) for the meaning of " party to the application	or distribution of a controlled substance.
of the first 1.2002(b) for the meaning of equot, party to the application	acquot, for these purposes.
14 M. CD. Ci.	
14. Name of Person Signing Yancey L. Spruill	15. Title of Person Signing
rancey L. Sprum	Treasurer
WILLFUL FALSE STATEMENTS MADE ON THIS FORM	
(U.S. Code, Title 18, Section 1001), AND/OR REV	
(U.S. Code, Title 47, Section 312(a)(1)), AND/OR	FORFEITURE (U.S. Code, Title 47, Section 503).

### FCC NOTICE REQUIRED BY THE PAPERWORK REDUCTION ACT

The public reporting for this collection of information is estimated to average 2 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.

Remember – You are not required to respond to a collection of information sponsored by the Federal government, and the government may not conduct or sponsor this collection, unless it displays a currently valid OMB control number or if we fail to provide you with this notice. This collection has been assigned an OMB control number of 3060–0678.

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.

DG Consents Sub, Inc. Application for STA February 2013 Page 1 of 1

# Description of Request for Special Temporary Authority

No. SES-MOD-INTR2013-00496) is included with this request. GeoEye-2 and IKONOS space stations. A reference copy of this application (FCC File ("EESS") earth station in Prudhoe Bay, Alaska (Call Sign E040264) and the GeoEye-1, inter alia, permit communications between its Earth Exploration Satellite Service DG Consents Sub, Inc. ("DG Consents") has filed a modification application to,

DigitalGlobe, Inc., parent company of DG Consents, following the merger of DigitalGlobe, Inc. and GeoEye, Inc. *See* FCC File No. SES-T/C-20120817-00761 station and GeoEye-1 and IKONOS, which are now ultimately controlled by order to allow immediate testing of communication links between the Prudhoe Bay earth currently in orbit. STA is requested for a 60-day period, beginning March 6, 2013 and ending May 5, 2013, and is required in advance of the proposed permanent authority in (granted Jan. 10, 2013). authority ("STA") to communicate with the two space stations (GeoEye-1 and IKONOS) With this application, DG Consents respectfully requests special temporary

included with the modification of license application in FCC File No. SES-MOD-Signs E970270 and E980376). DG Consents has coordinated its use of the frequencies INTR2013-00496. from Prudhoe Bay. See Frequency Coordination and Interference Analysis Report technical conditions as currently authorized to the GeoEye Alaska earth stations (Call Operations under the STA with GeoEye-1 and IKONOS would be under the same

operations without delay and assure the continued safe operation of the two subject space DigitalGlobe, Inc. to commence consolidation of its existing and newly acquired EESS Grant of the instant STA request will serve the public interest by enabling

In summary, and on the basis of the information provided above, DG Consents respectfully requests, for a period of 60 days commencing on March 6, 2013, special GeoEye-1 and IKONOS space stations. temporary authority to permit communications between its Prudhoe Bay earth station and

Approved by OMB 3060-0678

Date & Time Filed: Feb 28 2013 7:11:26:453PM

File Number: SES-MOD-INTR2013-00496

	FCC 312 MAIN FORM FOR OFFICIAL USE ONLY
FCC Use Only	AMD - MAIN FORM
	FCC APPLICATION FOR SPACE AND EARTH STATION:MOD OR

APPLICANT INFORMATION

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

Prudhoe Bay Earth Station Modification

1-8. Legal	1-8. Legal Name of Applicant		
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@digitalglobe.com
City:	Longmont	State:	СО
Country:	USA	Zipcode: 80503 -	80503 -
Attention:	Attention: Mr. Seth Cedars		
9-16. Name	9-16. Name of Contact Representative		
Name:	Stephen D. Baruch	Phone Number:	202-416-6782
Company:	Company: Lerman Senter PLLC	Fax Number:	202-429-4626
Street:	2000 K Street, NW	E-Mail:	sbaruch@lermansenter.com
	Suite 600		
City:	Washington	State:	DC
Country: USA	USA	Zipcode:	20006-
Attention:		Relationship:	Legal Counsel

## CLASSIFICATION OF FILING

17c. Is a fee submitted with this application?		<ul><li>a1. Earth Station</li><li>a2. Space Station</li></ul>	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.
ion?	(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) 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.	<ul> <li>b4. Modification of License or Registration</li> <li>b5. Assignment of License or Registration</li> <li>b6. Transfer of Control of License or Registration</li> <li>b7. Notification of Minor Modification</li> </ul>	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. (N/A) b2. Application for Registration of New Domestic Receive-Only Station  Ob3. Amendment to a Pending Application

● If Yes, complete and attach FCC Form 159.

If No, indicate reason for fee exemption (see 47 C.F.R.Section 1.1114).  O Governmental Entity O Noncommercial educational licensee O Other(please explain):	fee exemption (see 47 C.F.R.Section 1.1114).  O Noncommercial educational licensee :
17d. Fee Classification CGX - Fixed Sa	17d. Fee Classification CGX - Fixed Satellite Transmit/Receive Earth Station
18. If this filing is in reference to an existing station, enter:  (a) Call sign of station:	<ul><li>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:</li><li>(a) Date pending application was filed:</li><li>(b) File number:</li></ul>
20. NATURE OF SERVICE: This filing i apply:	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	
C. Kadiodetermination Satellite  Z d. Earth Exploration Satellite  e. Direct to Home Fixed Satellite	
f. Digital Audio Radio Service g. Other (please specify)	
<ul><li>21. STATUS: Choose the button next to the applicable status.</li><li>Choose only one.</li><li>Common Carrier</li><li>Non-Common Carrier</li></ul>	he applicable status.    22. If earth station applicant, check all that apply.    X Using U.S. licensed satellites    Using Non-U.S. licensed satellites
23. If applicant is providing INTERNATION.  One. Are these facilities:  Connected to a Public Switched Network.	23. If applicant is providing INTERNATIONAL COMMON CARRIER service, see instructions regarding Sec. 214 filings. Choose one. Are these facilities:  O Connected to a Public Switched Network O Not connected to a Public Switched Network O N/A
24. FREQUENCY BAND(S): Place an 'X' in the box(	24. FREQUENCY BAND(S): Place an 'X' in the box(es) next to all applicable frequency band(s).
C.Other (Please specify upper and lower frequencies in MHz.) Frequency Lower: 2042 Frequency Upper: 8400 (Please specify)	<b>X</b> 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 bu  • a. Fixed Earth Station	CLASS OF STATION: Choose the button next to the class of station that applies. Choose only one.  'a. Fixed Earth Station
O c. 12/14 GHz VSAT Network	
O 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 O N/A  "For Space Station applications, select N/A."	ITY: Only O Receive-Only O N/A ect N/A."
27. The purpose of this proposed modifica	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 ■ c authorization to increase EIRP and EIRP density	designator and related service lesignator and related service IEIRP density

### **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 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. Rad Haz Study O Yes No

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.

	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.
O Yes O 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 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 O N/A	31. Is the applicant a corporation organized under the laws of any foreign government?
O Yes O No O N/A	30. Is the applicant an alien or the representative of an alien?
O Yes O No	29. Is the applicant a foreign government or the representative of any foreign government?

### BASIC QUALIFICATIONS

O Yes ⊗ No	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
	38. Has any court finally adjudged the applicant, or any person directly or indirectly controlling the
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	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	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.

NE AND / OR	WILLFUL FALSE STATEMENTS MADE ON THIS FORM ARE PUNISHABLE BY FINE AND / OR	
	45. Name of Person Signing Yancey L. Spruill Treasurer  A6. Title of Person Signing Treasurer	4 7
	tion	100000
	44. Applicant is a (an): (Choose the button next to applicable response.)	44
as against the regulatory requests an authorization in applicant to be in violation reof and are incorporated ertifies that all statements knowledge and belief, and	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.	
	CERTIFICATION	1 1
<b>⋄</b> c	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.	20220H
O <sub>B</sub>	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.	2 00 H
⊗ 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.	4 म १७
See Attachment A.Attachment A	43. Description. (Summarize the nature of the application and the services to be provided). See Attach	4
l be issued, what	42b. What administration has licensed or is in the process of licensing the space station? If no license will be issued, what administration has coordinated or is in the process of coordinating the space station?	2 4
O Yes O 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.	4 !! a.
• γ <sub>es</sub> Ο N <sub>0</sub>	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.	<u>а доа д</u>
	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.	0 0 0 0 1 4
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.	0 T W

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).

## FCC Form 312 - Schedule B:(Technical and Operational Description) SATELLITE EARTH STATION AUTHORIZATIONS

### FOR OFFICIAL USE ONLY

		RESULT IN	RTS 17 AND 25 WILI	FAILURE TO COMPLY WITH 47 CFR PARTS 17 AND 25 WILL RESULT IN THE RETURN OF THIS APPLICATION.	FAILURE TO CO THE RETURN O
<b>⊚</b> No	• Yes		ential hazard of the st	854 and/or the FAA's study regarding the potential hazard of the structure to aviation?	854 and/or the FA aviation?
		ted FCC Form	ed a copy of a comple	FAA notification is required, have you attached a copy of a completed FCC Form	FAA notification
		13(c)) Where	and 47 CFR nart 25.1	E20. FAA Notification - (See 47 CFR Part 17 and 47 CFR part 25.113(c)) Where	E20. FAA Notific
No No	Yes			country(ies) and plot of coordination contours as	country(ies) and pl
<b>&gt;</b>	>		ed? If YES, attach the	E19. Is coordination with another country required? If YES, attach the name of the	E19. Is coordination
O No	• Yes		, attach a frequency co	E18. Is frequency coordination required? If YES, attach a frequency coordination report as Coordination Report	E18. Is frequency coordas Coordination Report
O No	• Yes		ovide the location and telep	E17. Is the facility operated by remote control? If YES, provide the location and telephone number of the control point.	E17. Is the facility opecontrol point.
⊗Yes ONo ON/A	⊗Yes Ο	d antenna(s) comply d by the	atellites, do(es) the propose (a2) and (b) as demonstrate	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?	the Fixed Satellite Service (FSS) with non-gwith the antenna gain patterns specified in Smanufacturer's qualification measurements?
		if they operate in	d Satellite Service (FSS), or	E16. If the proposed antenna(s) do not operate in the Fixed Satellite Service (FSS), or if they operate in	E16. If the proposed a
OYes ON0 ⊗N/A	oyes o	stationary satellites, xion 25.209(a) and as a technical	lite Service (FSS) with geosain patterns specified in Secesurement? If NO, provide icy.	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.	E15. If the proposed a do(es) the proposed au (b) as demonstrated by analysis showing com
			15.0 meters	AMSL):	E14. Site Elevation (AMSL):
ON/A		<b>◎</b> NAD-83	ONAD-27	nates are:	E13. Lat/Lon Coordinates are:
				148 ° 23 ' 59.2 " W	E12. Longitude:
				70 ° 13 ' 13.6 " N	E11. Latitude:
			N/A	m:	E10. Area of Operation
		99734	E9. Zip Code	AK	E4. State
	rough	North Slope Borough	E8. County:	North Slope	
		Prudhoe Bay	E7. City:	Tract #53, ASLS 76-227	E3. Street:
		907-659-1910	E6. Phone Number:	Remote Control Point	E2: Contact Name
		E040264	E5. Call Sign:	Prudhoe Bay ES	E1: Site Identifier:
				ion Site	Location of Earth Station Site

### POINTS OF COMMUNICATION

E24. Country:	E23. Orbit Location:
E22. ITU Name:	E21. Common Name: E22
R, please enter the following:	Satellite Name:GeoEye 1   GeoEye 1   NGSO If you selected OTHER, please enter the following:
E24. Country: USA	E23. Orbit Location: NGSO
E22. ITU Name:	E21. Common Name: IKONOS
enter the following:	Satellite Name: OTHER   OTHER   If you selected OTHER, please enter the following:

l 8393.9705 R Right Hand 8394.0295 R Circular 59K7G1D	E50. Modulation and Services QPSK, Telemetry	l 8385.9400 R Right Hand 120KG1D	E50. Modulation and Services Image Data	1 8345.9680 R Right Hand 64K0G1D	E50. Modulation and Services QPSK, Data	8025.0000 R Left and Right 370MG1D	E50. Modulation and Services Image Data	1 8025.0000 R Right Hand 320MG7D	E50. Modulation and Services QPSK, Data	1 8135.000 R Left and Right 8285.000 R Circular 150MG1D	Bands(MHz) Mode (H,V,L,R) I	E28. E43/44. E45. E46. Antenna E47.  Antenna Frequency T/R Polarization Emission	NCY	1 0.0/0.0   12.8   27.8   0.0   1 <sub>1</sub>	E28. Diameter Antenna Minor/Major Id (meters)  Height Above Sea Above Level (meters)  E35. E36. Height Above Sea Above Level (meters)  E27. Building Height Above Sea Above Sea Cround (meters)	Bay ES 1 1 ViaSat VI0- X/Y 5.4	Bay ES 1 1 ViaSat VI0- X/Y 5.4	Antenna Quantity Manufacturer Model	ANTENNA	E26. Common Name:	E25. Site Identifier: Prudhoe Bay ES	POINTS OF COMMUNICATION (Destination Points)	E23. Orbit Location: NGSO	E21. Common Name: WORLDVIEW-3	Satellite Name:OTHER   OTHER   If you selected OTHER, please enter the following:	E23. Orbit Location: E24. (	E21. Common Name: E22. I	pareille name. George 2   George 2   NGSO II you selected OTHEK, please enter the following:
Right Hand Circular	K, Telemetry	Right Hand Circular	ge Data	Right Hand Circular	K, Data	ft and rcular	ge Data	Right Hand Circular	K, Data	Left and Right Circular		E46. Antenna Polarization		27.8		ViaSat	ViaSat				S	tination Points)	T	EW-3	If you selected (			E 2   INCISO II YOU
59K7G1D		120KG1D		64K0G1D		370MG1D		320MG7D		150MG1D	Designator	Emission					'	E31. Model							)THER, please e	E24.	E22.	I Selected OTHE
0.0		0.0		0.0		0.0		0.0		0.0	Carrier(dBW)	E48. Maximum  EIRP per		100.0 0.0	E38. Total Input Power at antenna flange (Watts)	36.6 dE	28.5 dE	E32. E Antenna Tra Size (		E27. Counti			E24. (	E22. I	nter the following	E24. Country:	ITU Name:	K, please enter t
0.0		0.0		0.0		0.0		0.0		0.0	<u> </u>	******		)	E39. Maximum Antenna Height Above Rooftop (meters)	36.6 dBi at 2.0250	dBi at 8.0300	E41/42. Antenna Gain Transmint and/or Recieve ( dBi at GHz)		Country: USA			E24. Country:	E22. ITU Name:	ng:			ne ronowing:
											Carrier(dBW/4kHz)	E49. Maximum ERIP Density per		57.0	E40. Total EIRP for al carriers (dBW)			1a Gain r Recieve GHz)										

A STATE OF THE PARTY OF THE PAR				FREQUENCY COORDINATION
			modulated Carrier	E50. Modulation and Services Unmodulated Carrier
53.0	53.0	NON	Right Hand Circular	1 2092.6000 T
			modulated Carrier	E50. Modulation and Services Unmodulated Carrier
53.0	53.0	NON	Right Hand Circular	1 2052.0000 T
			modulated Carrier	E50. Modulation and Services Unmodulated Carrier
53.0	53.0	NON	Right Hand Circular	1 2042.0000 T
			SK (TT&C)	E50. Modulation and Services BPSK (TT&C)
41.0	53.0	1M32G1D	Right Hand Circular	1 2092.6000 T
			SK (TT&C)	E50. Modulation and Services BPSK (TT&C)
53.0	53.0	68K0G2D	Right Hand Circular	1 2052.0000 T
			SK (TT&C)	E50. Modulation and Services BPSK (TT&C)
41.0	53.0	1M32G1D	Right Hand Circular	1 2052.0000 T
			SK (TT&C)	E50. Modulation and Services BPSK (TT&C)
53.0	53.0	68K0G2D	Right Hand Circular	1 2042.0000 T
			SK, Telemetry	E50. Modulation and Services QPSK, Telemetry

REQUENCY COORDINATION

			<b>A</b>
			E28. Antenna Id
Non- 2092.6000 Geostationary 2092.6000	Non- Geostationary	Non- 2042.000 Geostationary 2042.0000	E51. Satellite Orbit Type
2092.6000 2092.6000	2052.0000 ry 2052.0000	$\Box$	E52/53. Frequency Limits (MHz)
0.0/0.0	0.0/0.0	0.0/0.0	E51. Satellite Frequency of Satellite Arc Orbit Type Limits Eastern/Western (MHz) Limit
	0.0		E56. Earth Station I Azimuth Angle Eastern Limit
3.0	3.0	3.0	E57. Antenna Elevation Angle Eastern Limit
360.0	360.0	360.0	E58. Earth Station H Azimuth Angle Western Limit
3.0	3.0	3.0	E59. Antenna Elevation Angle Western Limit
34.6	34.6	34.6	E60. Maximum EIRP Density toward the Horizon (dBW/4kHz)

## REMOTE CONTROL POINT LOCATION

E61. Call Sign		E66. Phone Number	
		303-684-4587	-
NOTE: Please enter the callsign of the controlling station, not the callsign for which this	allsign for which this		
application is being filed.			
E62. Street Address			
1601 Dry Creek Drive			
Suite 260			
E63. City	E68. County	E67/68.	E64. Zip
Longmont		State/Country	Code
			80503

FCC NOTICE REQUIRED BY THE PAPERWORK REDUCTION ACT

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. estimate, or how we can improve the collection and reduce the burden it causes you, please write to the Federal The public reporting for this collection of information is estimated to average 2 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 Communications Commission, AMD-PERM, Paperwork Reduction Project (3060-0678), Washington, DC

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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.

DG Consents Sub, Inc.
Earth Station Modification Application
February 2013
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### Description of Request

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). With this application, DG Consents Sub, Inc. ("DG Consents") requests modification of its earth station located in Prudhoe Bay, Alaska (Call Sign E040264) to permit communications with the GeoEye-1, GeoEye-2 and IKONOS space stations, licensed to GeoEye License Corp. ("GeoEye License"). Following a merger between

addition, the Prudhoe Bay 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 File No. SAT-MOD-20120710-00111 (granted Jan. 24, 2013). recently authorized for addition to DG Consents' fleet of EESS space stations. See FCC added to the frequencies already authorized for operations from Prudhoe Bay. In The frequencies requested in the attached FCC Form 312, Schedule B will be

# RADIATION HAZARD STUDY

# DIGITALGLOBE, PRUDHOE BAY 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.

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. In this report DigitalGlobe, Inc. analyzes the maximum radiofrequency (RF) levels emitted from the

# 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)

= wavelength of the RF transmit frequency (in meters)

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

Snear = 
$$\{(16 \eta \text{ Pfreed}) / [\pi (\text{Dant})^2]\} / 10$$

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

= antenna aperature efficiency

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

 $D_{ant}$  = 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

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

where: Rfar = distance to beginning of far-field (in meters) Dant = diameter of the antenna main reflector (in meters) = wavelength of the RF transmit frequency in (meters)

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

$$Sfar = \left[ \left( Pfeed Gant \right) / 4 \pi \left( Rfar \right)^{2} \right] / 10$$

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

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

Gant = antenna main beam gain at RF transmit frequency (in watts)

Rfar = distance to beginning of far-field (in meters)

# ANTENNA TRANSITION REGION POWER DENSITY CALCULATION

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

Str≤ Snear

where: Srr = 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

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

$${\sf Sfeed(sub) = 1000 \{[2(Pfeed)] / \{[\pi (Dfeed(sub))^2] / 4\}\}}$$

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

# ANTENNA MAIN REFLECTOR POWER DENSITY CALCULATION

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

$$Sant = \{ [2(Pfeed)] / \{ [\pi (Dant)^2] / 4 \} \} / 10$$

Sant = maximum power density in the antenna main reflector region Dant = diameter of the antenna main reflector (in meters) Pfeed = maximum power into antenna feed flange (in watts) (in milliwatts per square centimeter)

## GROUND POWER DENSITY CALCULATION BETWEEN THE ANTENNA MAIN REFLECTOR AND THE

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

 $Sground = \left\{ Pfeed / \left\{ \left[ \pi \left( Dant \right)^{2} \right] / 4 \right\} \right\} / 10$ 

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

# SUMMARY OF CALCULATED RADIATION LEVELS

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

and advised. DigitalGlobe earth stations is limited to authorized personnel who have been appropriately briefed directional antenna significantly limit exposure to the general population. Furthermore, access to not considered in this analysis for several reasons. The main-beam height above ground, minimum 3 degree elevation above horizon transmit inhibit mask and tracking motion of this highly Maximum permissible exposure (MPE) limits for general population/uncontrolled exposure were

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

### CERTIFICATION

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

David D. Greenidge

Mgr. Remote Ground Systems DigitalGlobe, Inc.

### Radiation Hazard Calculations

		1919	msi(I	sanataA
Earth Station	gsλ	Prudhoe	aqoj	DigitalG

1		***************************************
Beginning of far field	n 01.811	u
Near field extent	n 12.94	ш
Wave length	n 21.0	ш
EIRP (watts)	V 61.880724	Μ
EIRP (dBm)	b 03.38	ugp
Maximum power into antenna feed (dBm)	50.00 d	ugp
Antenna aperture efficiency	22.0	
nisอ ธทายากA	<b>b</b>	dBi
Maximum power into antenna feed-flange (watts)	Λ ΟΟΤ	Μ
Transmit Frequency	N 2025 N	zyM
Feed-Flange or subreflector diameter	o 22.8	шэ
Antenna Diameter	n 4.2	w

<b>ታ</b> ታ'0	MW/cm^2	Satisfies MPE Limits	L
<b>78.0</b>	Z^mɔ\Wm	Satisfies MPE Limits	
3741.38	Z^mɔ\Wm	Potential Hazard	
96'0	mW/cm^2	Satisfies MPE Limits	-
96.0	mW/cm^2	Satisfies MPE Limits	
92.0	MW/cm^2	Satisfies MPE Limits	
66.0 66.0 86.1478 78.0		wW\cm^2 mW\cm^2 mW\cm\Z \mw\wm	mW\cm^2 Satisfies MPE Limits mW\cm^2 Satisfies MPE Limits mW\cm^2 Potential Hazard cm\cm^2 Satisfies MPE Limits  Satisfies MPE Limits

## FREQUENCY COORDINATION AND INTERFERENCE **ANALYSIS REPORT**

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

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

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5 CERTIFICATION	4. EARTH STATION COORDINATION DATA	3. SUPPLEMENTAL SHOWING	2. SUMMARY OF RESULTS4	1. CONCLUSIONS 3
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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

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

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

AERIAL VIDEO SYSTEMS 3G Wireless, LLC

Alascom Inc AT&T California

Ascent Media Network Services, LLC

Bellsouth Telecommunications, Inc.

Borgeson, Tom R.

Broadcast Sports Inc.

CNG Communications, Inc.

Carolina Telephone and Telegraph Co

Casper, John

CenturyTel of the Southwest, Inc.

Chicago Comnet Corp
Cincinnati Bell Wireless LLC

Citywide News Network, Inc.

Cohen, Elana

DCI II, INC. Cowboys Stadium LP

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

Onboard Images On Scene Video Production NorthWest Suburbs Community Access Corp Ohio Bell Telephone Company Navajo Communications Company

Plateau Telecommunications, Inc. Penn Service Microwave Co., 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 Total RF Marketing Inc

Unisat, Inc.

United Telephone - Southeast VERIZON SOUTH INC.

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

Western Technical Services Westar Satellite Services LP

Wexler Video, Inc.

Winged Vision Inc

Wisconsin Bell, Inc.

Wolfe Air Aviation

# 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: Job Number: 02/25/2013 130215COMSGE02

Max Great Circle Coordination Distance 534.0 km / 331.8 mi Precipitation Scatter Contour Radius 760.3 km / 472.4 mi	Frequency Information       Transmit 2.0 GHz         Emission / Frequency Range (MHz)       NON - 68KOG2D / 2042.0 - 2042.0         NON, 68KOG2D, 1M32G1D / 2052.0 - 2052.0       256KG1D - 1M32G1D / 2085.6875 - 2085.6875         NON - 1M32G1D / 2092.6 - 2092.6       256KG1D - 1M32G1D / 2094.896 - 2094.896	Interference Objectives: Long Term -154.0 dBW/4 kHz 20% Short Term -131.0 dBW/4 kHz 0.0025%	Maximum EIRP (dBW/4 kHz) 53.0 (dBW/MHz) 77.0	Max Available RF Power (dBW/4 kHz) 16.4 (dBW/MHz) 40.4	Antenna Information Transmit - FCC32 Manufacturer ViaSat Model Gain / Diameter 36.6 dBi / 5.4 m 3-dB / 15-dB Beamwidth 0.50° / 1.00°	Link Information  Satellite Type  Mode  Mode  Modulation  Minimum Elevation Angle  Azimuth Range  Antenna Centerline (AGL)  Low Earth Orbit  TO - Transmit-Only  Digital  Digital  0.0° to 360°  3.66 m / 12.0 ft	Site Information  PRUDHOE BAY, AK  Venue Name  Latitude (NAD 83)  Longitude (NAD 83)  Climate Zone  Rain Zone  Rain Zone  Ground Elevation (AMSL)  PRUDHOE BAY, AK  70° 13′ 13.6″ N  148° 23′ 59.2″ W  2  15.0 m / 49.2 ft	Administrative Information  Status Call Sign Licensee Code Licensee Name  DG Consents Sub, Inc.

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

	Max Available RF Power	Short Term	Interference Objectives: Long Term	Antenna Mode	Antenna Model	Antenna Centerline (AGL)	Ground Elevation (AMSL)	Longitude (NAD 83)	Latitude (NAD 83)	Licensee Name	Coordination Values
	16.4 (dBW/4 kHz)	Term -131.0 dBW/4 kHz	erm -154.0 dBW/4 kHz	Transmit 2.0 GHz	ViaSat 5.4 Meter	3.66 m / 12.0 ft	15.0 m / 49.2 ft	148° 23' 59.2" W	70° 13' 13.6" N	DG Consents Sub, Inc.	PRUDHOE BAY, AK
Hrspan ∓ 3 O CE1		0.0025%	20%								

150 150 160 165 170 175 180	90 100 105 110 110 120 120 130 130	30 30 30 30 30 30 30 30 30 30 30 30 30 3	Interference Objectives: 1  Max Available RF Power  Horizon  Azimuth (°) Elevation  0 0.00  10 0.00  15 0.00  15 0.00  20 0.00
0.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00	0.0000000000000000000000000000000000000	Interference Objectives: Long Term Short Term Max Available RF Power  Horizon Azimuth (°) Elevation (°)  0 0.00 10 0.00 15 0.00 15 0.00 20 0.00
114.21 114.21 118.63 123.00 127.30 127.30 131.51 135.60 139.52 143.24	60.17 64.58 69.04 73.53 78.04 82.57 87.11 91.65 96.20 100.73 105.25	25.90 24.85 24.72 25.52 27.18 29.55 32.46 35.80 39.44 43.32 47.37 51.54 55.82	-154.0 dBW/4 kHz erm -131.0 dBW/4 kHz 16.4 (dBW/4 kHz)  Antenna Hc Discrimination (°) Ga 40.48 36.76 33.33 30.29 27.76
7.00 7.00 7.00 7.00 7.00 7.00	7.00 7.00 7.00 7.00 7.00 7.00 7.00	7.00 7.00 7.00 7.00 7.00 7.00 7.00	7.0 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
534.00 534.00 534.00 534.00 534.00 534.00 534.00	534.00 534.00 534.00 534.00 534.00 534.00 534.00 534.00 534.00	534.00 534.00 534.00 534.00 534.00 534.00 534.00 534.00 534.00 534.00 534.00	l 5

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

Short Term Max Available RF Power	Interference Objectives: Long Term	Antenna Mode	Antenna Model	Antenna Centerline (AGL)	Ground Elevation (AMSL)	Longitude (NAD 83)	Latitude (NAD 83)	Licensee Name	<b>Coordination Values</b>
-131.0 dBW/4 kHz 16.4 (dBW/4 kHz)	-154.0 dBW/4 kHz	Transmit 2.0 GHz	ViaSat 5.4 Meter	3.66 m / 12.0 ft	15.0 m / 49.2 ft	148° 23' 59.2" W	70° 13' 13.6" N	DG Consents Sub, Inc.	PRUDHOE BAY, AK
0.0025%	20%								

Transn
nit 2.0
GHz

Č	350 355	345	340	335	330	325	320	315	310	305	300	295	290	285	280	275	270	265	260	255	250	245	240	235	230	225	220	215	210	205	200	195	190	Azimuth (°)		
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.21	0.25	0.23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Elevation (°)	Horizon	
11.10	48.49	52.70	57.00	61.37	65.79	70.26	74.75	79.27	83.80	88.35	92.89	97.43	101.96	106.47	110.96	115.42	119.83	124.18	128.38	132.53	136.57	140.56	144.20	147.54	150.45	152.82	154.48	155.28	155.15	154.10	152.24	149.71	146.67	Discrimination (°)	Antenna	
7.00	7.00	7.00	7.00	7.00	7.00	7.00	7.00	7.00	7.00	7.00	7.00	7.00	7.00	7.00	7.00	7.00	7.00	7.00	7.00	7.00	7.00	7.00	7.00	7.00	7.00	7.00	7.00	7.00	7.00	7.00	7.00	7.00	7.00	Gain (dBi)	Horizon	i alialili
334.00	534.00	534.00	534.00	534.00	534.00	534.00	534.00	534.00	534.00	534.00	534.00	534.00	534.00	534.00	534.00	534.00	534.00	534.00	534.00	534.00	534.00	534.00	534.00	534.00	534.00	534.00	534.00	534.00	534.00	534.00	534.00	534.00	534.00	Distance (km)	Coordination	IL 2.0 GHZ

### 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: De Edu

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

DATED: February 27, 2013