

LAW OFFICES  
**GOLDBERG, GODLES, WIENER & WRIGHT LLP**  
1025 Connecticut Avenue, N.W., Suite 1000  
WASHINGTON, D.C. 20036-5417

HENRY GOLDBERG  
JOSEPH A. GODLES  
JONATHAN L. WIENER

W. KENNETH FERREE\*  
HENRIETTA WRIGHT  
THOMAS G. GHERARDI, P.C.  
COUNSEL

THOMAS S. TYCZ\*\*  
SENIOR POLICY ADVISOR

\*NOT ADMITTED IN DC

\*\*NOT AN ATTORNEY

(202) 429-4900  
FAX:  
(202) 327-5499  
e-mail:  
general@g2w2.com  
website: www.g2w2.com

June 15, 2020

**ELECTRONIC FILING VIA IBFS**

Ms. Marlene H. Dortch, Secretary  
Federal Communications Commission  
Office of the Secretary  
445 12th Street, S.W.  
Washington, D.C. 20554

Re: BlackSky Global, LLC  
Application for Permanent Authority to  
Construct and Operate a Transmit/Receive  
Earth Station in Brewster, WA, Callsign E202003,  
File No. SES-LIC-20200513-00530

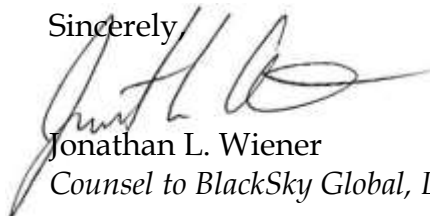
Dear Ms. Dortch:

On behalf of BlackSky Global, LLC, ("BlackSky"), submitted herewith is a frequency coordination report prepared by Comsearch as a supplement to the above referenced application.

The report shows that coordination has been satisfactorily completed and, on that basis, there is no need for restrictions on the operation of the proposed Brewster facilities due to interference considerations.

Questions concerning this matter should be referred to the undersigned.

Sincerely,



Jonathan L. Wiener  
Counsel to BlackSky Global, LLC

cc: Jose Albuquerque (email)  
Paul Blais (email)  
Kerry Murray (email)

# FREQUENCY COORDINATION AND INTERFERENCE ANALYSIS REPORT

Prepared for  
**BlackSky Global, LLC**  
**BREWSTER, WA**  
**Satellite Earth Station**

Prepared By:  
COMSEARCH  
19700 Janelia Farm Boulevard  
Ashburn, VA 20147  
June 15, 2020

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## 1. CONCLUSIONS

An interference study considering all existing, proposed and prior coordinated microwave facilities within the coordination contours of the proposed earth station demonstrates that this site will operate satisfactorily with the common carrier 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 05/26/2020.

#### Company

3G Wireless, LLC  
Aerial Video Systems  
Apple Valley Broadcasting Inc.  
Borgeson, Tom R.  
Broadcast Sports Inc.  
Casper, John  
CenturyTel of the Southwest, Inc.  
Chicago Comnet Corp  
Cincinnati Bell Wireless LLC  
Citywide News Network, Inc.  
Cowboys Stadium LP  
DCI II, INC.  
Direct Broadcast Services, Inc.  
Frontier California Inc.  
Global Telecom & Technology Americas, In  
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  
KHQ, Incorporated  
KIRO-TV, Inc  
Kentucky RSA #3 Cellular General Partner  
Kentucky RSA #4 Cellular General Partner  
King Broadcasting Company  
King Broadcasting Company - KREM TV  
MERCURY COMMUNICATIONS  
Mountain Licenses, L.P.  
NEW ENGLAND DIGITAL DISTRIBUTION, INC.  
NSM Surveillance  
Onboard Images  
Pacific Bell Tel Com dba AT&T California  
Production & Satellite Services, Inc.  
REMOTE FACILITIES CONSULTING SERVICES  
RF Film, Inc  
Radiofone, Inc.  
Randy Hermes Production

Sinclair Seattle Licensee, LLC  
Sinclair Yakima Licensee, LLC ( WA)  
Speedshotz, Inc  
Spokane Television Inc.  
TTWN Networks, LLC  
The CW Television Stations Inc.  
Unisat, Inc.  
Vyvx, LLC  
Winged Vision Inc  
Wisconsin Bell Telephone Company  
Wolfe Air Aviation

## **4. EARTH STATION COORDINATION DATA**

This section presents the data pertinent to frequency coordination of the proposed 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: 06/10/2020  
Job Number: 200526COMSGE01

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### Administrative Information

Status ENGINEER PROPOSAL  
Call Sign  
Licensee Code BLASKY  
Licensee Name BlackSky Global, LLC

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### Site Information BREWSTER, WA

Venue Name  
Latitude (NAD 83) 48° 8' 45.6" N  
Longitude (NAD 83) 119° 42' 0.4" W  
Climate Zone A  
Rain Zone 5  
Ground Elevation (AMSL) 382.83 m / 1256.0 ft

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### Link Information

Satellite Type Low Earth Orbit  
Mode TO - Transmit-Only  
Modulation Digital  
Minimum Elevation Angle 5.0°  
Azimuth Range 0.0° to 360°  
Antenna Centerline (AGL) 4.88 m / 16.0 ft

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### Antenna Information Transmit - FCC32

Manufacturer NEC  
Model 7.6 meter  
Gain / Diameter 41.5 dBi / 7.6 m  
3-dB / 15-dB Beamwidth 0.25° / 0.50°

Max Available RF Power (dBW/4 kHz) -8.8  
(dBW/MHz) 15.2

Maximum EIRP (dBW/4 kHz) 32.7  
(dBW/MHz) 56.7

Interference Objectives: Long Term -154.0 dBW/4 kHz 20%  
Short Term -131.0 dBW/4 kHz 0.0025%

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### Frequency Information Transmit 2.0 GHz

Emission / Frequency Range (MHz) 200KF1D / 2071.725 - 2072.025

Max Great Circle Coordination Distance 262.0 km / 162.8 mi  
Precipitation Scatter Contour Radius 100.0 km / 62.1 mi

# COMSEARCH

## Earth Station Data Sheet

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

### Coordination Values

### BREWSTER, WA

Licensee Name BlackSky Global, LLC  
Latitude (NAD 83) 48° 8' 45.6" N  
Longitude (NAD 83) 119° 42' 0.4" W  
Ground Elevation (AMSL) 382.83 m / 1256.0 ft  
Antenna Centerline (AGL) 4.88 m / 16.0 ft  
Antenna Model NEC 7.6 meter  
Antenna Mode Transmit 2.0 GHz  
Interference Objectives: Long Term -154.0 dBW/4 kHz 20%  
Short Term -131.0 dBW/4 kHz 0.0025%  
Max Available RF Power -8.8 (dBW/4 kHz)

Azimuth (°)	Horizon Elevation (°)	Antenna Discrimination (°)	Transmit 2.0 GHz	
			Horizon Gain (dBi)	Coordination Distance (km)
0	1.87	69.99	20.70	262.00
5	0.62	65.42	20.70	262.00
10	0.83	61.21	20.70	262.00
15	0.59	56.93	20.70	262.00
20	1.20	53.06	20.70	262.00
25	1.48	49.23	20.70	262.00
30	0.47	44.89	20.70	262.00
35	0.48	41.22	20.70	262.00
40	0.77	37.99	20.70	262.00
45	0.97	35.06	20.70	262.00
50	1.01	32.44	20.70	262.00
55	1.38	30.65	20.70	262.00
60	1.84	29.65	20.70	262.00
65	1.97	29.08	20.70	262.00
70	1.95	29.14	20.70	262.00
75	2.02	30.06	20.70	262.00
80	2.23	31.80	20.70	262.00
85	2.24	33.96	20.70	262.00
90	2.46	36.77	20.70	262.00
95	2.59	39.88	20.70	262.00
100	2.45	43.12	20.70	262.00
105	2.10	46.52	20.70	262.00
110	2.00	50.27	20.70	262.00
115	1.74	54.11	20.70	262.00
120	1.66	58.15	20.70	262.00
125	1.25	62.20	20.70	262.00
130	0.80	66.35	20.70	262.00
135	0.49	70.61	20.70	262.00
140	0.23	74.95	20.70	262.00
145	0.00	79.34	20.70	262.00
150	0.00	83.78	20.70	262.00
155	0.00	88.23	20.70	262.00
160	0.00	92.69	20.70	262.00
165	0.00	97.13	20.70	262.00
170	0.00	101.57	20.70	262.00
175	0.00	105.99	20.70	262.00
180	0.00	110.38	20.70	262.00
185	0.00	114.73	20.70	262.00

# COMSEARCH

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

### Coordination Values

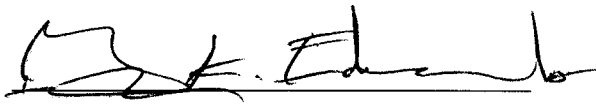
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Interference Objectives: Long Term -154.0 dBW/4 kHz 20%  
Short Term -131.0 dBW/4 kHz 0.0025%  
Max Available RF Power -8.8 (dBW/4 kHz)

Azimuth (°)	Horizon Elevation (°)	Antenna Discrimination (°)	Transmit 2.0 GHz	
			Horizon Gain (dBi)	Coordination Distance (km)
190	0.00	119.03	20.70	262.00
195	0.00	123.27	20.70	262.00
200	0.00	127.42	20.70	262.00
205	0.00	131.45	20.70	262.00
210	0.00	135.35	20.70	262.00
215	0.00	139.06	20.70	262.00
220	0.00	142.53	20.70	262.00
225	0.00	145.68	20.70	262.00
230	0.00	148.41	20.70	262.00
235	0.00	150.60	20.70	262.00
240	0.00	152.13	20.70	262.00
245	2.04	150.85	20.70	262.00
250	3.02	149.79	20.70	262.00
255	3.40	148.62	20.70	262.00
260	3.14	147.37	20.70	262.00
265	2.93	145.46	20.70	262.00
270	3.85	142.16	20.70	262.00
275	4.19	139.01	20.70	262.00
280	4.23	135.78	20.70	262.00
285	3.99	132.46	20.70	262.00
290	3.87	128.85	20.70	262.00
295	3.85	125.03	20.70	262.00
300	2.91	121.41	20.70	262.00
305	1.91	117.61	20.70	262.00
310	2.37	113.28	20.70	262.00
315	1.95	109.11	20.70	262.00
320	1.67	104.84	20.70	262.00
325	1.65	100.49	20.70	262.00
330	1.96	96.11	20.70	262.00
335	2.31	91.73	20.70	262.00
340	0.44	87.33	20.70	262.00
345	0.86	82.92	20.70	262.00
350	1.94	78.64	20.70	262.00
355	2.34	74.37	20.70	262.00

## 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: June 15, 2020