June 22, 2020

Re: Atlas Space Operations, Inc.
BARROW, AK
S-Band Transmit Only Earth Station
Job Number: 200622COMSGE03

Dear Frequency Coordinator:

This notice is being provided in accordance with Section 25.203(c) of the FCC Rules and Regulations. We are forwarding the attached coordination data on behalf of Atlas Space Operations, Inc., 10850 E. Traverse Hwy, Suite 3355 Traverse City, MI 49684 for a S-Band Transmit Only Earth Station to be located in BARROW, AK.

The coordination notice is being circulated to the owners (or their protection agents) of all existing or proposed terrestrial facilities operating in a shared frequency band within the coordination contours of the proposed station(s).

We respectfully request that you examine this data for its interference potential with your system(s). In the event that your analysis identifies potential interference cases that have not been resolved, please contact us by July 27, 2020.

If there are any questions concerning this coordination notice, please contact Comsearch.

Sincerely,

COMSEARCH

Gary K. Edwards
Senior Manager
gedwards@comsearch.com

Enclosure(s)

Date:	06/22/2020
Job Number:	200622COMSGE03

Administrative Information	
Status	ENGINEER PROPOSAL
Call Sign	
Licensee Code	ATLSPC
Licensee Name	Atlas Space Operations, Inc.

Site Information	**BARROW, AK**
Venue Name	
Latitude (NAD 83)	71° 16' 30.4" N
Longitude (NAD 83)	156° 48' 22.0" W
Climate Zone	A
Rain Zone	2
Ground Elevation (AMSL)	9.0 m / 29.5 ft

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)	2.74 m / 9.0 ft

Antenna Information		**Transmit - FCC32**	
Manufacturer		Orbit	
Model		Gaia 100	
Gain / Diameter		35.0 dBi / 3.7 m	
3-dB / 15-dB Beamwidth		0.50° / 1.00°	
Max Available RF Power	(dBW/4 kHz)	-8.7	
	(dBW/MHz)	15.3	
Maximum EIRP	(dBW/4 kHz)	26.3	
	(dBW/MHz)	50.3	
Interference Objectives:	Long Term	-154.0 dBW/4 kHz	20%
	Short Term	-131.0 dBW/4 kHz	0.0025%

Frequency Information	**Transmit 2.0 GHz**
Emission / Frequency Range (MHz)	1M50G7W, 128M0G7W, 150MG7W / 2086.8
Max Great Circle Coordination Distance	220.0 km / 136.7 mi
Precipitation Scatter Contour Radius	100.0 km / 62.1 mi

Coordination Values	**BARROW, AK**		
Licensee Name	Atlas Space Operations, Inc.		
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Ground Elevation (AMSL)	9.0 m / 29.5 ft		
Antenna Centerline (AGL)	2.74 m / 9.0 ft		
Antenna Model	Orbit 3.7 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	-8.7 (dBW/4 kHz)		

		Transmit 2.0 GHz		
Azimuth (°)	Horizon Elevation (°)	Antenna Discrimination (°)	Horizon Gain (dBi)	Coordination Distance (km)
0	0.00	34.37	4.50	220.00
5	0.00	31.26	4.50	220.00
10	0.00	28.63	4.50	220.00
15	0.00	26.62	4.50	220.00
20	0.00	25.39	4.50	220.00
25	0.00	25.05	4.50	220.00
30	0.00	25.63	4.50	220.00
35	0.00	27.08	4.50	220.00
40	0.00	29.26	4.50	220.00
45	0.00	32.03	4.50	220.00
50	0.00	35.24	4.50	220.00
55	0.00	38.79	4.50	220.00
60	0.00	42.59	4.50	220.00
65	0.00	46.58	4.50	220.00
70	0.00	50.71	4.50	220.00
75	0.00	54.94	4.50	220.00
80	0.00	59.26	4.50	220.00
85	0.00	63.64	4.50	220.00
90	0.25	68.11	4.50	220.00
95	0.30	72.58	4.50	220.00
100	0.32	77.06	4.50	220.00
105	0.35	81.56	4.50	220.00
110	0.38	86.08	4.50	220.00
115	0.38	90.59	4.50	220.00
120	0.37	95.11	4.50	220.00
125	0.34	99.62	4.50	220.00
130	0.31	104.11	4.50	220.00
135	0.25	108.60	4.50	220.00
140	0.00	113.09	4.50	220.00
145	0.00	117.51	4.50	220.00
150	0.00	121.88	4.50	220.00
155	0.00	126.17	4.50	220.00
160	0.00	130.38	4.50	220.00
165	0.00	134.48	4.50	220.00
170	0.00	138.42	4.50	220.00
175	0.00	142.16	4.50	220.00
180	0.00	145.63	4.50	220.00
185	0.00	148.74	4.50	220.00

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Short Term	-131.0 dBW/4 kHz	0.0025%	
Max Available RF Power	-8.7 (dBW/4 kHz)		

			Transmit 2.0 GHz	
Azimuth (°)	Horizon Elevation (°)	Antenna Discrimination (°)	Horizon Gain (dBi)	Coordination Distance (km)
190	0.00	151.37	4.50	220.00
195	0.00	153.38	4.50	220.00
200	0.00	154.61	4.50	220.00
205	0.00	154.95	4.50	220.00
210	0.00	154.37	4.50	220.00
215	0.00	152.92	4.50	220.00
220	0.00	150.74	4.50	220.00
225	0.00	147.97	4.50	220.00
230	0.00	144.76	4.50	220.00
235	0.00	141.21	4.50	220.00
240	0.00	137.41	4.50	220.00
245	0.00	133.42	4.50	220.00
250	0.00	129.29	4.50	220.00
255	0.00	125.06	4.50	220.00
260	0.00	120.74	4.50	220.00
265	0.00	116.36	4.50	220.00
270	0.00	111.93	4.50	220.00
275	0.00	107.47	4.50	220.00
280	0.00	102.97	4.50	220.00
285	0.00	98.46	4.50	220.00
290	0.00	93.94	4.50	220.00
295	0.00	89.41	4.50	220.00
300	0.00	84.88	4.50	220.00
305	0.00	80.36	4.50	220.00
310	0.00	75.85	4.50	220.00
315	0.00	71.36	4.50	220.00
320	0.00	66.91	4.50	220.00
325	0.00	62.49	4.50	220.00
330	0.00	58.12	4.50	220.00
335	0.00	53.83	4.50	220.00
340	0.00	49.62	4.50	220.00
345	0.00	45.52	4.50	220.00
350	0.00	41.58	4.50	220.00
355	0.00	37.84	4.50	220.00