



March 06, 2019

Re: Atlas Space Operations, Inc.
MOJAVE, CA
S-Band Transmit Only Earth Station
Job Number: 190306COMSGE04

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 MOJAVE, CA.

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 April 10, 2019.

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: 03/06/2019
Job Number: 190306COMSGE04

Administrative Information

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

Site Information**MOJAVE, CA**

Venue Name
Latitude (NAD 83) 35° 3' 51.0" N
Longitude (NAD 83) 118° 9' 44.0" W
Climate Zone A
Rain Zone 4
Ground Elevation (AMSL) 849.71 m / 2787.8 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 Orbital Systems
Model 3.0 meter
Gain / Diameter 34.0 dBi / 3.0 m
3-dB / 15-dB Beamwidth 1.00° / 2.00°

Max Available RF Power (dBW/4 kHz) 6.3
(dBW/MHz) 30.3

Maximum EIRP (dBW/4 kHz) 40.3
(dBW/MHz) 64.3

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) 10K0G7W / 2109.75

Max Great Circle Coordination Distance 220.0 km / 136.7 mi
Precipitation Scatter Contour Radius 209.2 km / 130.0 mi

Coordination Values		MOJAVE, CA	
Licensee Name		Atlas Space Operations, Inc.	
Latitude (NAD 83)		35° 3' 51.0" N	
Longitude (NAD 83)		118° 9' 44.0" W	
Ground Elevation (AMSL)		849.71 m / 2787.8 ft	
Antenna Centerline (AGL)		2.74 m / 9.0 ft	
Antenna Model		Orbital Systems 3.0 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	6.3 (dBW/4 kHz)		

Azimuth (°)	Horizon Elevation (°)	Antenna Discrimination (°)	Transmit 2.0 GHz	
			Horizon Gain (dBi)	Coordination Distance (km)
0	1.03	75.45	4.50	220.00
5	0.97	71.24	4.50	220.00
10	0.89	67.05	4.50	220.00
15	0.78	62.91	4.50	220.00
20	0.65	58.83	4.50	220.00
25	0.52	54.83	4.50	220.00
30	0.43	50.95	4.50	220.00
35	0.32	47.20	4.50	220.00
40	0.22	43.64	4.50	220.00
45	0.00	40.23	4.50	220.00
50	0.00	37.27	4.50	220.00
55	0.00	34.70	4.50	220.00
60	0.00	32.63	4.50	220.00
65	0.00	31.16	4.50	220.00
70	0.00	30.36	4.50	220.00
75	0.00	30.30	4.50	220.00
80	0.00	30.98	4.50	220.00
85	0.00	32.35	4.50	220.00
90	0.00	34.33	4.50	220.00
95	0.00	36.82	4.50	220.00
100	0.00	39.72	4.50	220.00
105	0.00	42.95	4.50	220.00
110	0.00	46.44	4.50	220.00
115	0.00	50.12	4.50	220.00
120	0.00	53.97	4.50	220.00
125	0.00	57.94	4.50	220.00
130	0.00	62.01	4.50	220.00
135	0.00	66.15	4.50	220.00
140	0.00	70.35	4.50	220.00
145	0.00	74.59	4.50	220.00
150	0.00	78.87	4.50	220.00
155	0.00	83.17	4.50	220.00
160	0.00	87.49	4.50	220.00
165	0.00	91.81	4.50	220.00
170	0.00	96.12	4.50	220.00
175	0.00	100.43	4.50	220.00
180	0.00	104.71	4.50	220.00
185	0.00	108.96	4.50	220.00

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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	6.3 (dBW/4 kHz)		

Azimuth (°)	Horizon Elevation (°)	Antenna Discrimination (°)	Transmit 2.0 GHz	
			Horizon Gain (dBi)	Coordination Distance (km)
190	0.78	112.98	4.50	220.00
195	0.00	117.32	4.50	220.00
200	0.00	121.40	4.50	220.00
205	0.00	125.39	4.50	220.00
210	0.00	129.26	4.50	220.00
215	0.00	132.98	4.50	220.00
220	0.26	136.34	4.50	220.00
225	0.34	139.54	4.50	220.00
230	0.40	142.43	4.50	220.00
235	0.45	144.92	4.50	220.00
240	0.52	146.90	4.50	220.00
245	0.56	148.30	4.50	220.00
250	0.72	148.92	4.50	220.00
255	0.92	148.79	4.50	220.00
260	1.03	148.02	4.50	220.00
265	1.23	146.52	4.50	220.00
270	1.41	144.46	4.50	220.00
275	1.60	141.92	4.50	220.00
280	1.75	139.04	4.50	220.00
285	1.95	135.81	4.50	220.00
290	2.10	132.38	4.50	220.00
295	2.07	128.84	4.50	220.00
300	2.26	125.05	4.50	220.00
305	2.90	120.96	4.50	220.00
310	2.82	117.09	4.50	220.00
315	2.57	113.17	4.50	220.00
320	1.71	109.29	4.50	220.00
325	1.52	105.16	4.50	220.00
330	1.44	100.96	4.50	220.00
335	1.43	96.72	4.50	220.00
340	1.34	92.48	4.50	220.00
345	1.26	88.22	4.50	220.00
350	1.14	83.95	4.50	220.00
355	1.09	79.69	4.50	220.00