

Ka,Q/V-Band Earth Station – Cordes Lake, AZ

Frequency Coordination Report

Ka, Q/V-Band

Receive: 37.5 – 42.5 GHz Transmit: 27.5 – 31.0 GHz, 47.2 – 50.2, 50.4 – 52.4 GHz



Prepared on Behalf of
SPACE EXPLORATION
HOLDINGS

July 15, 2026



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1. Summary of Results

On behalf of SPACE EXPLORATION HOLDINGS, Comsearch performed a coordination notice under Section 25.203(c) of the FCC's rules for all existing and proposed terrestrial licenses within the coordination contours of their proposed Ka, Q/V-band earth station in Cordes Lake, AZ which will receive at 40 GHz and transmit at 28 and 50 GHz¹. Prior-notification letters were sent to the licensees and a copy of the notification data is provided in section four of this report. The earth station coordination was finalized on July 14, 2026.

There are no unresolved objections from any of the incumbent 28/40/50 GHz licensees.

2. 28/40/50 GHz Common Carrier and LTTS Coordination

In accordance with FCC Rules and Regulations, the Ka, Q/V-band earth station in Cordes Lake, AZ was prior-coordinated by Comsearch. A notification letter and datasheets for this earth station were sent to the following 28/40/50 GHz common carrier fixed microwave licensees. These licensees are authorized to operate temporary fixed operations from 38.6 – 40.0 GHz on a nationwide basis or local basis.

Licensee	Authorized Geographic Area
None Identified	

A notification letter and datasheets for the Ka, Q/V-band earth station in Cordes Lake, AZ were also sent to the following 40 GHz LTTS licensee. This licensee is authorized to operate temporary fixed operations from 38.6 – 40.0 GHz on a market basis.

Licensee	Authorized Geographic Area
Broadcast Sports International, LLC	Nationwide
DCI II Inc	Nationwide
Remote Facilities Consulting Services Inc	Nationwide

No objections were received from the common carrier or LTTS incumbents.

¹ The proposed earth station will receive in the 37.5 – 42.5 GHz & transmit in the 47.2-50.2 GHz / 50.4-52.4 GHz portion of the Q/V-Band. Ka-band transmissions will be in the 27.5 – 31.0 GHz band.

3. 28/40/50 GHz UMFUS Coordination

There were seven 28/40/50 GHz UMFUS licensees identified within the coordination distance of the proposed earth station. The proposed earth station will operate on frequencies that overlap portions of the UMFUS service which includes the following frequency ranges:

27.5 GHz – 31.0 GHz
37.5 GHz – 42.5 GHz
47.2 GHz – 50.2 GHz

Licensee	Authorized Geographic Area
AT&T	Market Based
Alta	Market Based
Althea	Market Based
GeoLinks	Market Based
DISH Network	Market Based
T-Mobile	Market Based
Verizon	Market Based

There were no objections from the UMFUS incumbents within the coordination distance at the end of the coordination period.



4. Earth Station Coordination Data

This section presents the data pertinent to the proposed Ka, Q/V-band earth station in Cordes Lake, AZ. This data was circulated to all incumbent licensees in the shared 28/40/50 GHz frequency ranges.

Date: 06/16/2026
Job Number: 260616COMSGE06

Administrative Information

Status: ENGINEER PROPOSAL
Call Sign:
Licensee Code: SPACEX
Licensee Name: SpaceX Services, Inc

Site Information

CORDES LAKE, AZ
Venue Name: AGUA FRIA
Latitude (NAD 83): 34° 19' 45.1" N
Longitude (NAD 83): 112° 7' 5.0" W
Climate Zone: A
Rain Zone: 5
Ground Elevation (AMSL): 1151.0 m / 3776.2 ft

Link Information

Satellite Type: Low Earth Orbit
Mode: TR - Transmit-Receive
Antenna Count: 40
Modulation: Digital
Minimum Elevation Angle: 10.0°
Azimuth Range: 0.0° to 360°
Antenna Centerline (AGL): 1.4 m / 4.6 ft

Antenna Information

Manufacturer:
Model:
Gain / Diameter:
3-dB / 15-dB Beamwidth:

Receive - FCC32

SpaceX
1.99 meter
50.0 dBi / 2.0 m
0.50° / 1.00°

Transmit - FCC32

SpaceX
1.99 meter
53.9 dBi / 2.0 m
0.30° / 0.60°

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

-40.8
-16.8

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

13.1
37.1

Aggregate EIRP (dBW/MHz)

37.1

Interference Objectives: Long Term -156.0 dBW/MHz 20%
Short Term -146.0 dBW/MHz 0.01%

-151.0 dBW/4 kHz 20%
-128.0 dBW/4 kHz 0.0025%

Frequency Information

Emission / Frequency Range (MHz)

Receive 18.0 GHz

60M0D7W - 480MD7W / 17300.0 - 17800.0
60M0D7W - 480MD7W / 17800.0 - 18600.0
60M0D7W - 480MD7W / 18600.0 - 18800.0
60M0D7W - 480MD7W / 18800.0 - 19300.0
60M0D7W - 480MD7W / 19300.0 - 19700.0
60M0D7W - 480MD7W / 19700.0 - 20200.0
60M0D7W - 480MD7W / 20200.0 - 21200.0

Transmit 28.0 GHz

60M0D7W - 480MD7W / 27500.0 - 29100.0
60M0D7W - 480MD7W / 29100.0 - 29500.0
60M0D7W - 480MD7W / 29500.0 - 30000.0
60M0D7W - 480MD7W / 30000.0 - 31000.0

Max Great Circle Coordination Distance
Precipitation Scatter Contour Radius

225.0 km / 139.8 mi
100.0 km / 62.1 mi

100.0 km / 62.1 mi
100.0 km / 62.1 mi

SPACE EXPLORATION HOLDINGS
Ka, Q/V-Band Earth Station – Cordes Lake, AZ
Frequency Coordination Report
28/40/50 GHz

Coordination Values			CORDES LAKE, AZ			
Licensee Name			SpaceX Services, Inc			
Latitude (NAD 83)			34° 19' 45.1" N			
Longitude (NAD 83)			112° 7' 5.0" W			
Ground Elevation (AMSL)			1151.0 m / 3776.2 ft			
Antenna Centerline (AGL)			1.4 m / 4.6 ft			
Antenna Model			SpaceX 1.99 meter			
Antenna Mode			Receive 18.0 GHz		Transmit 28.0 GHz	
Interference Objectives: Long Term			-156.0 dBW/MHz	20%	-151.0 dBW/4 kHz	20%
Short Term			-146.0 dBW/MHz	0.01%	-128.0 dBW/4 kHz	0.0025%
Max Available RF Power			-40.8 (dBW/4 kHz)			
Azimuth (°)	Horizon Elevation (°)	Antenna Discrimination (°)	Receive 18.0 GHz		Transmit 28.0 GHz	
			Horizon Gain (dBi)	Coordination Distance (km)	Horizon Gain (dBi)	Coordination Distance (km)
0	1.12	78.53	0.00	225.00	0.00	100.00
5	1.13	74.11	0.00	225.00	0.00	100.00
10	1.08	69.71	0.00	225.00	0.00	100.00
15	0.96	65.33	0.00	225.00	0.00	100.00
20	0.82	60.98	0.00	225.00	0.00	100.00
25	0.71	56.69	0.00	225.00	0.00	100.00
30	0.52	52.45	0.00	225.00	0.00	100.00
35	0.32	48.28	0.00	225.00	0.00	100.00
40	0.21	44.27	0.00	225.00	0.00	100.00
45	0.00	40.37	0.00	225.00	0.00	100.00
50	0.36	37.05	0.00	225.00	0.00	100.00
55	0.31	33.79	0.00	225.00	0.00	100.00
60	0.55	31.18	0.00	225.00	0.00	100.00
65	0.48	28.87	0.00	225.00	0.00	100.00
70	0.51	27.31	0.00	225.00	0.00	100.00
75	0.49	26.50	0.00	225.00	0.00	100.00
80	0.50	26.58	0.00	225.00	0.00	100.00
85	0.75	27.75	0.00	225.00	0.00	100.00
90	1.07	29.72	0.00	225.00	0.00	100.00
95	1.11	32.06	0.00	225.00	0.00	100.00
100	0.83	34.67	0.00	225.00	0.00	100.00
105	0.37	37.61	0.00	225.00	0.00	100.00
110	0.00	40.97	0.00	225.00	0.00	100.00
115	0.00	44.80	0.00	225.00	0.00	100.00
120	0.00	48.80	0.00	225.00	0.00	100.00
125	0.00	52.93	0.00	225.00	0.00	100.00
130	0.00	57.15	0.00	225.00	0.00	100.00
135	0.00	61.46	0.00	225.00	0.00	100.00
140	0.00	65.82	0.00	225.00	0.00	100.00
145	0.45	70.31	0.00	225.00	0.00	100.00
150	0.96	74.80	0.00	225.00	0.00	100.00
155	1.10	79.24	0.00	225.00	0.00	100.00
160	0.28	83.64	0.00	225.00	0.00	100.00
165	0.52	88.13	0.00	225.00	0.00	100.00
170	0.45	92.60	0.00	225.00	0.00	100.00
175	0.51	97.08	0.00	225.00	0.00	100.00
180	0.59	101.53	0.00	225.00	0.00	100.00
185	0.68	105.96	0.00	225.00	0.00	100.00

SPACE EXPLORATION HOLDINGS
Ka, Q/V-Band Earth Station – Cordes Lake, AZ
Frequency Coordination Report
28/40/50 GHz

Coordination Values		CORDES LAKE, AZ				
Licensee Name		SpaceX Services, Inc				
Latitude (NAD 83)		34° 19' 45.1" N				
Longitude (NAD 83)		112° 7' 5.0" W				
Ground Elevation (AMSL)		1151.0 m / 3776.2 ft				
Antenna Centerline (AGL)		1.4 m / 4.6 ft				
Antenna Model		SpaceX 1.99 meter				
Antenna Mode		Receive 18.0 GHz		Transmit 28.0 GHz		
Interference Objectives: Long Term		-156.0 dBW/MHz	20%	-151.0 dBW/4 kHz	20%	
		Short Term	-146.0 dBW/MHz	0.01%	-128.0 dBW/4 kHz	0.0025%
Max Available RF Power		-40.8 (dBW/4 kHz)				
Azimuth (°)	Horizon Elevation (°)	Antenna Discrimination (°)	Receive 18.0 GHz		Transmit 28.0 GHz	
			Horizon Gain (dBi)	Coordination Distance (km)	Horizon Gain (dBi)	Coordination Distance (km)
190	1.05	110.30	0.00	225.00	0.00	100.00
195	1.15	114.63	0.00	225.00	0.00	100.00
200	1.81	118.74	0.00	225.00	0.00	100.00
205	1.60	123.01	0.00	225.00	0.00	100.00
210	2.62	126.73	0.00	225.00	0.00	100.00
215	2.95	130.52	0.00	225.00	0.00	100.00
220	2.93	134.31	0.00	225.00	0.00	100.00
225	2.10	138.40	0.00	225.00	0.00	100.00
230	1.87	141.95	0.00	225.00	0.00	100.00
235	2.82	144.32	0.00	225.00	0.00	100.00
240	2.53	147.17	0.00	225.00	0.00	100.00
245	1.67	150.06	0.00	225.00	0.00	100.00
250	2.28	150.98	0.00	225.00	0.00	100.00
255	3.40	150.60	0.00	225.00	0.00	100.00
260	3.15	150.78	0.00	225.00	0.00	100.00
265	2.74	150.34	0.00	225.00	0.00	100.00
270	2.88	148.66	0.00	225.00	0.00	100.00
275	1.36	147.74	0.00	225.00	0.00	100.00
280	1.46	144.87	0.00	225.00	0.00	100.00
285	1.62	141.58	0.00	225.00	0.00	100.00
290	1.63	138.09	0.00	225.00	0.00	100.00
295	1.72	134.34	0.00	225.00	0.00	100.00
300	1.56	130.52	0.00	225.00	0.00	100.00
305	1.63	126.46	0.00	225.00	0.00	100.00
310	1.68	122.31	0.00	225.00	0.00	100.00
315	1.43	118.15	0.00	225.00	0.00	100.00
320	1.35	113.88	0.00	225.00	0.00	100.00
325	1.37	109.52	0.00	225.00	0.00	100.00
330	1.52	105.12	0.00	225.00	0.00	100.00
335	1.35	100.73	0.00	225.00	0.00	100.00
340	1.25	96.31	0.00	225.00	0.00	100.00
345	1.21	91.86	0.00	225.00	0.00	100.00
350	1.16	87.41	0.00	225.00	0.00	100.00
355	1.14	82.96	0.00	225.00	0.00	100.00

Date: 06/16/2026
Job Number: 260616COMSGE06

Administrative Information

Status: ENGINEER PROPOSAL
Call Sign:
Licensee Code: SPACEX
Licensee Name: SpaceX Services, Inc

Site Information

CORDES LAKE, AZ
Venue Name: AGUA FRIA
Latitude (NAD 83): 34° 19' 45.1" N
Longitude (NAD 83): 112° 7' 5.0" W
Climate Zone: A
Rain Zone: 5
Ground Elevation (AMSL): 1151.0 m / 3776.2 ft

Link Information

Satellite Type: Low Earth Orbit
Mode: TR - Transmit-Receive
Antenna Count: 40
Modulation: Digital
Minimum Elevation Angle: 10.0°
Azimuth Range: 0.0° to 360°
Antenna Centerline (AGL): 1.4 m / 4.6 ft

Antenna Information

Receive - FCC32
Manufacturer: SpaceX
Model: 1.99 meter
Gain / Diameter: 55.9 dBi / 2.0 m
3-dB / 15-dB Beamwidth: 0.25° / 0.50°

Transmit - FCC32

SpaceX
1.99 meter
58.1 dBi / 2.0 m
0.20° / 0.40°

Max Available RF Power (dBW/4 kHz): -47.8
(dBW/MHz): -23.8

Maximum EIRP (dBW/4 kHz): 10.3
(dBW/MHz): 34.3

Aggregate EIRP (dBW/MHz): 34.3

Interference Objectives:	Long Term	-156.0 dBW/MHz	20%	-151.0 dBW/4 kHz 20%
	Short Term	-146.0 dBW/MHz	0.01%	-128.0 dBW/4 kHz 0.0025%

Frequency Information

Receive 40.0 GHz	Transmit 50.0 GHz
Emission / Frequency Range (MHz): 60M0D7W - 480MD7W / 37500.0 - 42500.0	60M0D7W - 480MD7W / 47200.0 - 50200.0
	60M0D7W - 480MD7W / 50400.0 - 51400.0
	60M0D7W - 480MD7W / 51400.0 - 52400.0

Max Great Circle Coordination Distance	225.0 km / 139.8 mi	100.0 km / 62.1 mi
Precipitation Scatter Contour Radius	100.0 km / 62.1 mi	100.0 km / 62.1 mi

SPACE EXPLORATION HOLDINGS
Ka, Q/V-Band Earth Station – Cordes Lake, AZ
Frequency Coordination Report
28/40/50 GHz

Coordination Values			CORDES LAKE, AZ			
Licensee Name			SpaceX Services, Inc			
Latitude (NAD 83)			34° 19' 45.1" N			
Longitude (NAD 83)			112° 7' 5.0" W			
Ground Elevation (AMSL)			1151.0 m / 3776.2 ft			
Antenna Centerline (AGL)			1.4 m / 4.6 ft			
Antenna Model			SpaceX 1.99 meter			
Antenna Mode			Receive 40.0 GHz		Transmit 50.0 GHz	
Interference Objectives: Long Term			-156.0 dBW/MHz	20%	-151.0 dBW/4 kHz	20%
Short Term			-146.0 dBW/MHz	0.01%	-128.0 dBW/4 kHz	0.0025%
Max Available RF Power			-47.8 (dBW/4 kHz)			
Azimuth (°)	Horizon Elevation (°)	Antenna Discrimination (°)	Receive 40.0 GHz		Transmit 50.0 GHz	
			Horizon Gain (dBi)	Coordination Distance (km)	Horizon Gain (dBi)	Coordination Distance (km)
0	1.12	78.53	0.00	225.00	0.00	100.00
5	1.13	74.11	0.00	225.00	0.00	100.00
10	1.08	69.71	0.00	225.00	0.00	100.00
15	0.96	65.33	0.00	225.00	0.00	100.00
20	0.82	60.98	0.00	225.00	0.00	100.00
25	0.71	56.69	0.00	225.00	0.00	100.00
30	0.52	52.45	0.00	225.00	0.00	100.00
35	0.32	48.28	0.00	225.00	0.00	100.00
40	0.21	44.27	0.00	225.00	0.00	100.00
45	0.00	40.37	0.00	225.00	0.00	100.00
50	0.36	37.05	0.00	225.00	0.00	100.00
55	0.31	33.79	0.00	225.00	0.00	100.00
60	0.55	31.18	0.00	225.00	0.00	100.00
65	0.48	28.87	0.00	225.00	0.00	100.00
70	0.51	27.31	0.00	225.00	0.00	100.00
75	0.49	26.50	0.00	225.00	0.00	100.00
80	0.50	26.58	0.00	225.00	0.00	100.00
85	0.75	27.75	0.00	225.00	0.00	100.00
90	1.07	29.72	0.00	225.00	0.00	100.00
95	1.11	32.06	0.00	225.00	0.00	100.00
100	0.83	34.67	0.00	225.00	0.00	100.00
105	0.37	37.61	0.00	225.00	0.00	100.00
110	0.00	40.97	0.00	225.00	0.00	100.00
115	0.00	44.80	0.00	225.00	0.00	100.00
120	0.00	48.80	0.00	225.00	0.00	100.00
125	0.00	52.93	0.00	225.00	0.00	100.00
130	0.00	57.15	0.00	225.00	0.00	100.00
135	0.00	61.46	0.00	225.00	0.00	100.00
140	0.00	65.82	0.00	225.00	0.00	100.00
145	0.45	70.31	0.00	225.00	0.00	100.00
150	0.96	74.80	0.00	225.00	0.00	100.00
155	1.10	79.24	0.00	225.00	0.00	100.00
160	0.28	83.64	0.00	225.00	0.00	100.00
165	0.52	88.13	0.00	225.00	0.00	100.00
170	0.45	92.60	0.00	225.00	0.00	100.00
175	0.51	97.08	0.00	225.00	0.00	100.00
180	0.59	101.53	0.00	225.00	0.00	100.00
185	0.68	105.96	0.00	225.00	0.00	100.00

SPACE EXPLORATION HOLDINGS
Ka, Q/V-Band Earth Station – Cordes Lake, AZ
Frequency Coordination Report
28/40/50 GHz

Coordination Values			CORDES LAKE, AZ			
Licensee Name			SpaceX Services, Inc			
Latitude (NAD 83)			34° 19' 45.1" N			
Longitude (NAD 83)			112° 7' 5.0" W			
Ground Elevation (AMSL)			1151.0 m / 3776.2 ft			
Antenna Centerline (AGL)			1.4 m / 4.6 ft			
Antenna Model			SpaceX 1.99 meter			
Antenna Mode			Receive 40.0 GHz		Transmit 50.0 GHz	
Interference Objectives:			Long Term	-156.0 dBW/MHz 20%	-151.0 dBW/4 kHz 20%	-128.0 dBW/4 kHz 0.0025%
			Short Term	-146.0 dBW/MHz 0.01%		
Max Available RF Power			-47.8 (dBW/4 kHz)			
Azimuth (°)	Horizon Elevation (°)	Antenna Discrimination (°)	Receive 40.0 GHz		Transmit 50.0 GHz	
			Horizon Gain (dBi)	Coordination Distance (km)	Horizon Gain (dBi)	Coordination Distance (km)
190	1.05	110.30	0.00	225.00	0.00	100.00
195	1.15	114.63	0.00	225.00	0.00	100.00
200	1.81	118.74	0.00	225.00	0.00	100.00
205	1.60	123.01	0.00	225.00	0.00	100.00
210	2.62	126.73	0.00	225.00	0.00	100.00
215	2.95	130.52	0.00	225.00	0.00	100.00
220	2.93	134.31	0.00	225.00	0.00	100.00
225	2.10	138.40	0.00	225.00	0.00	100.00
230	1.87	141.95	0.00	225.00	0.00	100.00
235	2.82	144.32	0.00	225.00	0.00	100.00
240	2.53	147.17	0.00	225.00	0.00	100.00
245	1.67	150.06	0.00	225.00	0.00	100.00
250	2.28	150.98	0.00	225.00	0.00	100.00
255	3.40	150.60	0.00	225.00	0.00	100.00
260	3.15	150.78	0.00	225.00	0.00	100.00
265	2.74	150.34	0.00	225.00	0.00	100.00
270	2.88	148.66	0.00	225.00	0.00	100.00
275	1.36	147.74	0.00	225.00	0.00	100.00
280	1.46	144.87	0.00	225.00	0.00	100.00
285	1.62	141.58	0.00	225.00	0.00	100.00
290	1.63	138.09	0.00	225.00	0.00	100.00
295	1.72	134.34	0.00	225.00	0.00	100.00
300	1.56	130.52	0.00	225.00	0.00	100.00
305	1.63	126.46	0.00	225.00	0.00	100.00
310	1.68	122.31	0.00	225.00	0.00	100.00
315	1.43	118.15	0.00	225.00	0.00	100.00
320	1.35	113.88	0.00	225.00	0.00	100.00
325	1.37	109.52	0.00	225.00	0.00	100.00
330	1.52	105.12	0.00	225.00	0.00	100.00
335	1.35	100.73	0.00	225.00	0.00	100.00
340	1.25	96.31	0.00	225.00	0.00	100.00
345	1.21	91.86	0.00	225.00	0.00	100.00
350	1.16	87.41	0.00	225.00	0.00	100.00
355	1.14	82.96	0.00	225.00	0.00	100.00



5. Contact Information

For questions or information regarding the Ka, Q/V-band Frequency Coordination Report, please contact:

Contact person:	Gary Edwards
Title:	Senior Manager, Satellite Services
Company:	Comsearch
Address:	21515 Ridgetop Circle, Suite 300, Sterling, VA 20166
Telephone:	703-726-5662
Email:	GEdwards@Comsearch.com
Web site:	www.comsearch.com

FREQUENCY COORDINATION AND INTERFERENCE ANALYSIS REPORT

Prepared for
SpaceX Services, Inc
CORDES LAKE, AZ
Satellite Earth Station

Prepared By:
COMSEARCH
21515 Ridgetop Circle, Suite 300
Sterling, VA 20166
July 15, 2026

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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 06/16/2026.

Company

AC BidCO LLC
AT&T Enterprises, LLC
AT&T Mobility Spectrum LLC - AZ
ATC Backhaul LLC
AccessParks LLC
Affiniti LLC
Airfiber WISP, LLC
Alltel Comm Southwest Holdings Inc.
American Medical Response, Inc.
American Towers LLC
Arizona Board of Regents Arizona St Univ
Arizona Public Service Company (APS)
Arizona State University - Tempe
Arizona, State Of
Audacy License, LLC
BNSF Railway Company
Bolt Internet
Business Only Broadband, LLC
California Internet, LLC dba GeoLinks
Camp Verde, Town of
Cellco Partnership - CO/ID/MT/WY/UT
Cellco Partnership - Southern California
Cellco Partnership-AZ/NM/NV
Central Yavapai Fire District
Citizens Utilities Rural Company, Inc.
City of Avondale
City of Buckeye Information Technology
City of Casa Grande
City of Glendale Water Services Wireless
City of Scottsdale
City of Sedona
City of Sedona Police Department
City of Surprise
City of Tempe
City of Tolleson
City of Winslow
City of Yuma
Coconino County Sheriff's Office
Commnet Four Corners, LLC
Connection Concepts, LLC

Conterra Ultra Broadband, LLC
Copper Canyon Fire and Medical District
Coppernet Systems, Inc.
Cox Communications Arizona, LLC
Creative Communications Sales & Rentals
Deer Valley Unified School District
Desert Mountain Club, Inc
Desert Mountain Master Association
Desert iNET
Dish Wireless LLC
El Paso Natural Gas Company, LLC
Electrical District No 3
Exterior Networks, LLC
FIF AireBeam, LLC
Fireline Network Solutions Inc.
Flagstaff, City of
Freeport-McMoRan Bagdad Inc
Frontier Communications of the Southwest
GTT Americas LLC
Gila River Cellular General Partnership
Gila River Indian Community
Global Telecom & Technology Americas
Global Telecom & Technology Americas, Inc
Golden Valley Cable and Communications
GovNET Licenses LLC
Gutierrez-Palmenberg, Inc.
Holbrook School District
Hualapai Tribe
InSite Telecom, Inc.
Interstate Wireless, Inc.
Jerome, City of (Police Dept.)
KERU-FM
KGT LLC
Lake Havasu City Police Department
Las Vegas Metropolitan Police Department
Littleton Unified School District
Los Angeles SMSA Ltd. Partnership
Maricopa, City of
Metropolitan Water Dist of So California
Midvale Telephone Exchange Inc.
Multimedia Holdings Corporation
Navajo Communications Company
Navajo County
Navajo Tribal Utility Authority
Navopache Electric Cooperative, Inc.
New Cingular Wireless PCS LLC - AZ
New Cingular Wireless PCS, LLC - S/E CAL
Niles Radio Communications
Northern Arizona University
Northland Pioneer College
One Ring Networks, Inc.
Pacific Bell Tel Com dba AT&T California
Paradise Valley Unified School District
Pendergast School District #92
Peoria, City of
Phoenix, City of

Prescott Valley, Town of
Prescott, City of
Qwest Corporation
Resound Networks
Rio Verde Wireless, LLC
SBA Towers IX, LLC
SBI License Corporation
Saddleback Communications
Salt River Pima-Maricopa Indian Communit
Sedona Fire District
Shamrock Foods Company
SmartSky Microwave, LLC
Smith Bagley, Inc
Spanish Independent Broadcast Network
T-Mobile MW LLC
Table Top Telephone Company
Taurus Technology Investment Partners
Town of Gilbert, AZ
TransWorld Network, LLC
Treatch, James E
Trepic Networks, LLC
Triplet Mountain Communications, Inc.
Tuba City Regional Healthcare Corp
Tucson Electric Power Company
Union Pacific Railroad Company
Univision Radio Stations Group, Inc.
Verde Valley Fire District
Verizon Wireless(VAW) LLC-AZ/CO/NM/NV/UT
Wecom LLC
White Cloud Communications
Wi-Fiber of Arizona LLC
Wi-Fiber, Inc.
WireFree Communications, Inc.
XO Communications, LLC
Xiber, LLC

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

21515 Ridgetop Circle, Suite 300, Sterling, VA 20166
(703)726-5662 <http://www.comsearch.com>

Date: 06/16/2026
Job Number: 260616COMSGE06

Administrative Information

Status: ENGINEER PROPOSAL
Call Sign:
Licensee Code: SPACEX
Licensee Name: SpaceX Services, Inc

Site Information

CORDES LAKE, AZ
Venue Name: AGUA FRIA
Latitude (NAD 83): 34° 19' 45.1" N
Longitude (NAD 83): 112° 7' 5.0" W
Climate Zone: A
Rain Zone: 5
Ground Elevation (AMSL): 1151.0 m / 3776.2 ft

Link Information

Satellite Type: Low Earth Orbit
Mode: TR - Transmit-Receive
Antenna Count: 40
Modulation: Digital
Minimum Elevation Angle: 10.0°
Azimuth Range: 0.0° to 360°
Antenna Centerline (AGL): 1.4 m / 4.6 ft

Antenna Information

Manufacturer:
Model:
Gain / Diameter:
3-dB / 15-dB Beamwidth:

Receive - FCC32

SpaceX
1.99 meter
50.0 dBi / 2.0 m
0.50° / 1.00°

Transmit - FCC32

SpaceX
1.99 meter
53.9 dBi / 2.0 m
0.30° / 0.60°

Max Available RF Power (dBW/4 kHz): -40.8
(dBW/MHz): -16.8

Maximum EIRP (dBW/4 kHz): 13.1
(dBW/MHz): 37.1

Aggregate EIRP (dBW/MHz): 37.1

Interference Objectives:	Long Term	-156.0 dBW/MHz	20%	-151.0 dBW/4 kHz 20%
	Short Term	-146.0 dBW/MHz	0.01%	-128.0 dBW/4 kHz 0.0025%

Frequency Information

Emission / Frequency Range (MHz)

Receive 18.0 GHz

60M0D7W - 480MD7W / 17300.0 - 17800.0
60M0D7W - 480MD7W / 17800.0 - 18600.0
60M0D7W - 480MD7W / 18600.0 - 18800.0
60M0D7W - 480MD7W / 18800.0 - 19300.0
60M0D7W - 480MD7W / 19300.0 - 19700.0
60M0D7W - 480MD7W / 19700.0 - 20200.0
60M0D7W - 480MD7W / 20200.0 - 21200.0

Transmit 28.0 GHz

60M0D7W - 480MD7W / 27500.0 - 29100.0
60M0D7W - 480MD7W / 29100.0 - 29500.0
60M0D7W - 480MD7W / 29500.0 - 30000.0
60M0D7W - 480MD7W / 30000.0 - 31000.0

Max Great Circle Coordination Distance	225.0 km / 139.8 mi	100.0 km / 62.1 mi
Precipitation Scatter Contour Radius	100.0 km / 62.1 mi	100.0 km / 62.1 mi

COMSEARCH**Earth Station Data Sheet**

21515 Ridgetop Circle, Suite 300, Sterling, VA 20166
(703)726-5662 <http://www.comsearch.com>

Coordination Values		CORDES LAKE, AZ			
Licensee Name		SpaceX Services, Inc			
Latitude (NAD 83)		34° 19' 45.1" N			
Longitude (NAD 83)		112° 7' 5.0" W			
Ground Elevation (AMSL)		1151.0 m / 3776.2 ft			
Antenna Centerline (AGL)		1.4 m / 4.6 ft			
Antenna Model		SpaceX 1.99 meter			
Antenna Mode		Receive 18.0 GHz		Transmit 28.0 GHz	
Interference Objectives:	Long Term	-156.0 dBW/MHz	20%	-151.0 dBW/4 kHz	20%
	Short Term	-146.0 dBW/MHz	0.01%	-128.0 dBW/4 kHz	0.0025%
Max Available RF Power		-40.8 (dBW/4 kHz)			

Azimuth (°)	Horizon Elevation (°)	Antenna Discrimination (°)	Receive 18.0 GHz		Transmit 28.0 GHz	
			Horizon Gain (dBi)	Coordination Distance (km)	Horizon Gain (dBi)	Coordination Distance (km)
0	1.12	78.53	0.00	225.00	0.00	100.00
5	1.13	74.11	0.00	225.00	0.00	100.00
10	1.08	69.71	0.00	225.00	0.00	100.00
15	0.96	65.33	0.00	225.00	0.00	100.00
20	0.82	60.98	0.00	225.00	0.00	100.00
25	0.71	56.69	0.00	225.00	0.00	100.00
30	0.52	52.45	0.00	225.00	0.00	100.00
35	0.32	48.28	0.00	225.00	0.00	100.00
40	0.21	44.27	0.00	225.00	0.00	100.00
45	0.00	40.37	0.00	225.00	0.00	100.00
50	0.36	37.05	0.00	225.00	0.00	100.00
55	0.31	33.79	0.00	225.00	0.00	100.00
60	0.55	31.18	0.00	225.00	0.00	100.00
65	0.48	28.87	0.00	225.00	0.00	100.00
70	0.51	27.31	0.00	225.00	0.00	100.00
75	0.49	26.50	0.00	225.00	0.00	100.00
80	0.50	26.58	0.00	225.00	0.00	100.00
85	0.75	27.75	0.00	225.00	0.00	100.00
90	1.07	29.72	0.00	225.00	0.00	100.00
95	1.11	32.06	0.00	225.00	0.00	100.00
100	0.83	34.67	0.00	225.00	0.00	100.00
105	0.37	37.61	0.00	225.00	0.00	100.00
110	0.00	40.97	0.00	225.00	0.00	100.00
115	0.00	44.80	0.00	225.00	0.00	100.00
120	0.00	48.80	0.00	225.00	0.00	100.00
125	0.00	52.93	0.00	225.00	0.00	100.00
130	0.00	57.15	0.00	225.00	0.00	100.00
135	0.00	61.46	0.00	225.00	0.00	100.00
140	0.00	65.82	0.00	225.00	0.00	100.00
145	0.45	70.31	0.00	225.00	0.00	100.00
150	0.96	74.80	0.00	225.00	0.00	100.00
155	1.10	79.24	0.00	225.00	0.00	100.00
160	0.28	83.64	0.00	225.00	0.00	100.00
165	0.52	88.13	0.00	225.00	0.00	100.00
170	0.45	92.60	0.00	225.00	0.00	100.00
175	0.51	97.08	0.00	225.00	0.00	100.00
180	0.59	101.53	0.00	225.00	0.00	100.00
185	0.68	105.96	0.00	225.00	0.00	100.00

COMSEARCH**Earth Station Data Sheet**

21515 Ridgetop Circle, Suite 300, Sterling, VA 20166
(703)726-5662 <http://www.comsearch.com>

Coordination Values		CORDES LAKE, AZ			
Licensee Name		SpaceX Services, Inc			
Latitude (NAD 83)		34° 19' 45.1" N			
Longitude (NAD 83)		112° 7' 5.0" W			
Ground Elevation (AMSL)		1151.0 m / 3776.2 ft			
Antenna Centerline (AGL)		1.4 m / 4.6 ft			
Antenna Model		SpaceX 1.99 meter			
Antenna Mode		Receive 18.0 GHz		Transmit 28.0 GHz	
Interference Objectives:	Long Term	-156.0 dBW/MHz	20%	-151.0 dBW/4 kHz	20%
	Short Term	-146.0 dBW/MHz	0.01%	-128.0 dBW/4 kHz	0.0025%
Max Available RF Power		-40.8 (dBW/4 kHz)			

Azimuth (°)	Horizon Elevation (°)	Antenna Discrimination (°)	Receive 18.0 GHz		Transmit 28.0 GHz	
			Horizon Gain (dBi)	Coordination Distance (km)	Horizon Gain (dBi)	Coordination Distance (km)
190	1.05	110.30	0.00	225.00	0.00	100.00
195	1.15	114.63	0.00	225.00	0.00	100.00
200	1.81	118.74	0.00	225.00	0.00	100.00
205	1.60	123.01	0.00	225.00	0.00	100.00
210	2.62	126.73	0.00	225.00	0.00	100.00
215	2.95	130.52	0.00	225.00	0.00	100.00
220	2.93	134.31	0.00	225.00	0.00	100.00
225	2.10	138.40	0.00	225.00	0.00	100.00
230	1.87	141.95	0.00	225.00	0.00	100.00
235	2.82	144.32	0.00	225.00	0.00	100.00
240	2.53	147.17	0.00	225.00	0.00	100.00
245	1.67	150.06	0.00	225.00	0.00	100.00
250	2.28	150.98	0.00	225.00	0.00	100.00
255	3.40	150.60	0.00	225.00	0.00	100.00
260	3.15	150.78	0.00	225.00	0.00	100.00
265	2.74	150.34	0.00	225.00	0.00	100.00
270	2.88	148.66	0.00	225.00	0.00	100.00
275	1.36	147.74	0.00	225.00	0.00	100.00
280	1.46	144.87	0.00	225.00	0.00	100.00
285	1.62	141.58	0.00	225.00	0.00	100.00
290	1.63	138.09	0.00	225.00	0.00	100.00
295	1.72	134.34	0.00	225.00	0.00	100.00
300	1.56	130.52	0.00	225.00	0.00	100.00
305	1.63	126.46	0.00	225.00	0.00	100.00
310	1.68	122.31	0.00	225.00	0.00	100.00
315	1.43	118.15	0.00	225.00	0.00	100.00
320	1.35	113.88	0.00	225.00	0.00	100.00
325	1.37	109.52	0.00	225.00	0.00	100.00
330	1.52	105.12	0.00	225.00	0.00	100.00
335	1.35	100.73	0.00	225.00	0.00	100.00
340	1.25	96.31	0.00	225.00	0.00	100.00
345	1.21	91.86	0.00	225.00	0.00	100.00
350	1.16	87.41	0.00	225.00	0.00	100.00
355	1.14	82.96	0.00	225.00	0.00	100.00

COMSEARCH

Earth Station Data Sheet

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

Date: 06/16/2026
Job Number: 260616COMSGE06

Administrative Information

Status: ENGINEER PROPOSAL
Call Sign:
Licensee Code: SPACEX
Licensee Name: SpaceX Services, Inc

Site Information

CORDES LAKE, AZ
Venue Name: AGUA FRIA
Latitude (NAD 83): 34° 19' 45.1" N
Longitude (NAD 83): 112° 7' 5.0" W
Climate Zone: A
Rain Zone: 5
Ground Elevation (AMSL): 1151.0 m / 3776.2 ft

Link Information

Satellite Type: Low Earth Orbit
Mode: TR - Transmit-Receive
Antenna Count: 40
Modulation: Digital
Minimum Elevation Angle: 10.0°
Azimuth Range: 0.0° to 360°
Antenna Centerline (AGL): 1.4 m / 4.6 ft

Antenna Information

Manufacturer:
Model:
Gain / Diameter:
3-dB / 15-dB Beamwidth:

Receive - FCC32

SpaceX
1.99 meter
55.9 dBi / 2.0 m
0.25° / 0.50°

Transmit - FCC32

SpaceX
1.99 meter
58.1 dBi / 2.0 m
0.20° / 0.40°

Max Available RF Power (dBW/4 kHz): -47.8
(dBW/MHz): -23.8

Maximum EIRP (dBW/4 kHz): 10.3
(dBW/MHz): 34.3

Aggregate EIRP (dBW/MHz): 34.3

Interference Objectives: Long Term: -156.0 dBW/MHz 20% -151.0 dBW/4 kHz 20%
Short Term: -146.0 dBW/MHz 0.01% -128.0 dBW/4 kHz 0.0025%

Frequency Information

Receive 40.0 GHz

Emission / Frequency Range (MHz): 60M0D7W - 480MD7W / 37500.0 - 42500.0

Transmit 50.0 GHz

60M0D7W - 480MD7W / 47200.0 - 50200.0
60M0D7W - 480MD7W / 50400.0 - 51400.0
60M0D7W - 480MD7W / 51400.0 - 52400.0

Max Great Circle Coordination Distance: 225.0 km / 139.8 mi 100.0 km / 62.1 mi
Precipitation Scatter Contour Radius: 100.0 km / 62.1 mi 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		CORDES LAKE, AZ		
Licensee Name		SpaceX Services, Inc		
Latitude (NAD 83)		34° 19' 45.1" N		
Longitude (NAD 83)		112° 7' 5.0" W		
Ground Elevation (AMSL)		1151.0 m / 3776.2 ft		
Antenna Centerline (AGL)		1.4 m / 4.6 ft		
Antenna Model		SpaceX 1.99 meter		
Antenna Mode		Receive 40.0 GHz		Transmit 50.0 GHz
Interference Objectives:	Long Term	-156.0 dBW/MHz	20%	-151.0 dBW/4 kHz 20%
	Short Term	-146.0 dBW/MHz	0.01%	-128.0 dBW/4 kHz 0.0025%
Max Available RF Power			-47.8 (dBW/4 kHz)	

Azimuth (°)	Horizon Elevation (°)	Antenna Discrimination (°)	Receive 40.0 GHz		Transmit 50.0 GHz	
			Horizon Gain (dBi)	Coordination Distance (km)	Horizon Gain (dBi)	Coordination Distance (km)
0	1.12	78.53	0.00	225.00	0.00	100.00
5	1.13	74.11	0.00	225.00	0.00	100.00
10	1.08	69.71	0.00	225.00	0.00	100.00
15	0.96	65.33	0.00	225.00	0.00	100.00
20	0.82	60.98	0.00	225.00	0.00	100.00
25	0.71	56.69	0.00	225.00	0.00	100.00
30	0.52	52.45	0.00	225.00	0.00	100.00
35	0.32	48.28	0.00	225.00	0.00	100.00
40	0.21	44.27	0.00	225.00	0.00	100.00
45	0.00	40.37	0.00	225.00	0.00	100.00
50	0.36	37.05	0.00	225.00	0.00	100.00
55	0.31	33.79	0.00	225.00	0.00	100.00
60	0.55	31.18	0.00	225.00	0.00	100.00
65	0.48	28.87	0.00	225.00	0.00	100.00
70	0.51	27.31	0.00	225.00	0.00	100.00
75	0.49	26.50	0.00	225.00	0.00	100.00
80	0.50	26.58	0.00	225.00	0.00	100.00
85	0.75	27.75	0.00	225.00	0.00	100.00
90	1.07	29.72	0.00	225.00	0.00	100.00
95	1.11	32.06	0.00	225.00	0.00	100.00
100	0.83	34.67	0.00	225.00	0.00	100.00
105	0.37	37.61	0.00	225.00	0.00	100.00
110	0.00	40.97	0.00	225.00	0.00	100.00
115	0.00	44.80	0.00	225.00	0.00	100.00
120	0.00	48.80	0.00	225.00	0.00	100.00
125	0.00	52.93	0.00	225.00	0.00	100.00
130	0.00	57.15	0.00	225.00	0.00	100.00
135	0.00	61.46	0.00	225.00	0.00	100.00
140	0.00	65.82	0.00	225.00	0.00	100.00
145	0.45	70.31	0.00	225.00	0.00	100.00
150	0.96	74.80	0.00	225.00	0.00	100.00
155	1.10	79.24	0.00	225.00	0.00	100.00
160	0.28	83.64	0.00	225.00	0.00	100.00
165	0.52	88.13	0.00	225.00	0.00	100.00
170	0.45	92.60	0.00	225.00	0.00	100.00
175	0.51	97.08	0.00	225.00	0.00	100.00
180	0.59	101.53	0.00	225.00	0.00	100.00
185	0.68	105.96	0.00	225.00	0.00	100.00

COMSEARCH

Earth Station Data Sheet

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

Coordination Values

CORDES LAKE, AZ

Licensee Name SpaceX Services, Inc
Latitude (NAD 83) 34° 19' 45.1" N
Longitude (NAD 83) 112° 7' 5.0" W
Ground Elevation (AMSL) 1151.0 m / 3776.2 ft
Antenna Centerline (AGL) 1.4 m / 4.6 ft
Antenna Model SpaceX 1.99 meter

Antenna Mode Receive 40.0 GHz

Transmit 50.0 GHz

Interference Objectives: Long Term -156.0 dBW/MHz 20% -151.0 dBW/4 kHz 20%

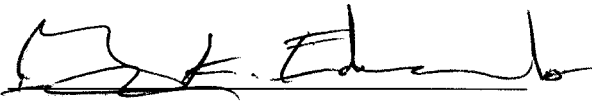
Short Term -146.0 dBW/MHz 0.01% -128.0 dBW/4 kHz 0.0025%

Max Available RF Power -47.8 (dBW/4 kHz)

Azimuth (°)	Horizon Elevation (°)	Antenna Discrimination (°)	Receive 40.0 GHz		Transmit 50.0 GHz	
			Horizon Gain (dBi)	Coordination Distance (km)	Horizon Gain (dBi)	Coordination Distance (km)
190	1.05	110.30	0.00	225.00	0.00	100.00
195	1.15	114.63	0.00	225.00	0.00	100.00
200	1.81	118.74	0.00	225.00	0.00	100.00
205	1.60	123.01	0.00	225.00	0.00	100.00
210	2.62	126.73	0.00	225.00	0.00	100.00
215	2.95	130.52	0.00	225.00	0.00	100.00
220	2.93	134.31	0.00	225.00	0.00	100.00
225	2.10	138.40	0.00	225.00	0.00	100.00
230	1.87	141.95	0.00	225.00	0.00	100.00
235	2.82	144.32	0.00	225.00	0.00	100.00
240	2.53	147.17	0.00	225.00	0.00	100.00
245	1.67	150.06	0.00	225.00	0.00	100.00
250	2.28	150.98	0.00	225.00	0.00	100.00
255	3.40	150.60	0.00	225.00	0.00	100.00
260	3.15	150.78	0.00	225.00	0.00	100.00
265	2.74	150.34	0.00	225.00	0.00	100.00
270	2.88	148.66	0.00	225.00	0.00	100.00
275	1.36	147.74	0.00	225.00	0.00	100.00
280	1.46	144.87	0.00	225.00	0.00	100.00
285	1.62	141.58	0.00	225.00	0.00	100.00
290	1.63	138.09	0.00	225.00	0.00	100.00
295	1.72	134.34	0.00	225.00	0.00	100.00
300	1.56	130.52	0.00	225.00	0.00	100.00
305	1.63	126.46	0.00	225.00	0.00	100.00
310	1.68	122.31	0.00	225.00	0.00	100.00
315	1.43	118.15	0.00	225.00	0.00	100.00
320	1.35	113.88	0.00	225.00	0.00	100.00
325	1.37	109.52	0.00	225.00	0.00	100.00
330	1.52	105.12	0.00	225.00	0.00	100.00
335	1.35	100.73	0.00	225.00	0.00	100.00
340	1.25	96.31	0.00	225.00	0.00	100.00
345	1.21	91.86	0.00	225.00	0.00	100.00
350	1.16	87.41	0.00	225.00	0.00	100.00
355	1.14	82.96	0.00	225.00	0.00	100.00

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: 

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COMSEARCH
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DATED: July 14, 2026



E-band Frequency Coordination Report

The “Agua Fria” Gateway (Cordes Lake, AZ)

June 16, 2026



Summary

SpaceX performed a coordination notice under Section 25.203(c), Section 25.251, and Appendix 7 of the ITU's Radio Regulations. Prior-notification letters with earth station details were sent to potentially affected terrestrial licensees; a copy of these details are available in this report. The earth station coordination was finalized on July 01, 2026. No objections were received from any terrestrial licensees.

Methodology

SpaceX has completed an interference analysis based on accepted international and Commission methodologies demonstrating that this satellite earth station will not cause harmful interference to existing terrestrial facilities in the band. Specifically, for each known receiver within the great circle coordination distance surrounding the proposed earth station, SpaceX calculated the expected interference/noise ratio (I/N) to the receiver, assuming the SpaceX antenna properties listed on the following page, SpaceX site layout and design, free-space propagation without terrain or clutter, and actual characteristics of receiver(s) obtained from the 70/80/90 GHz link-registration database. Even under these conservative assumptions, SpaceX's analysis confirms that this earth station will not cause interference exceeding 1.0 dB of degradation to the static threshold of existing 70/80 GHz links within the great circle coordination distance.¹

Operators contacted

Prior-coordination letters were sent to the following operators:

1. AT&T Enterprises, LLC
2. Aviat Networks
3. BOB, LLC
4. BOB, LLC dba Business Only Broadband
5. Bolt Internet
6. Bolt Internet, Inc.
7. Cellco Partnership
8. CenturyLink Communications, LLC
9. Ceragon Networks, Inc.
10. City of Sedona
11. Connection Concepts, LLC DBA: Verde Valley Internet
12. Consolidated Smart Broadband Systems, LLC
13. Cox Communications, Inc.
14. Desert iNET, LLC

¹ If there were any cases in which the interference threshold was exceeded in the conservative free-space analysis for any relevant receiver, SpaceX conducted an additional analysis with more realistic assumptions of terrain and clutter, under which the interference threshold was not exceeded for any relevant receiver. This further ensures that there will be no above-threshold interference to existing receivers.

15. E.I. Computer Systems Inc
16. Empire Southwest
17. Interstate Wireless, Inc.
18. Micronet Communications, Inc.
19. Netunwired LLC
20. REMEC Broadband Wireless Networks LLC DBA Bridgewave Communications
21. Rio Verde Wireless, LLC
22. SIAE Microelettronica, Inc.
23. Siklu, Inc
24. SpaceX
25. Sun Microwave
26. TREPIC Networks LLC
27. Taurus Technology Investment Partners
28. Verizon
29. Welink Communications, Inc.
30. Wi-Fiber of Arizona LLC
31. WiLine Spectrum Holdings LLC
32. Wilkinson Barker Knauer, LLP
33. Xiber LLC

Earth Station Data

This section presents the data that was circulated to all operators that met the criteria for notification for this earth station.

Site Information:

- Transmitting station name: The "Agua Fria" Gateway
- Transmitting station coordinates: 34.329187, -112.11805
- Ground Elevation (AMSL): 1151 m
- Antenna Count: 40
- Aggregate EIRP toward the horizon: -9 dBW/MHz

Frequency Information:

- Transmit: 81-86 GHz
- Receive: 71-76 GHz
- Max Great Circle Coordination Distance: 127 km
- Rain Scatter Coordination Distance Contour: 6 km

Link Information:

- Satellite Type: Low Earth Orbit
- Mode: TR – Transmit-Receive
- Modulation: Digital
- Minimum Elevation Angle: 15.0°
- Azimuth Range: 0.0° to 360.0°
- Antenna Centerline (AGL): 1.4 m

Antenna Information:

- Manufacturer: SpaceX
- Model/Diameter: 1.99m
- Gain: 60.9 dBi at 83.5 GHz
- Max Available RF Power: -20.8 dBW/MHz
- Horizon Gain: 0 dBi
- Maximum EIRP: 40.1 dBW/MHz (main beam)
- Permissible RF Interference Power Level²: I/N ≤ -6 dB
- Antenna Mask: ITU-R S.580

² See 47 CFR § 101.105(a)(5)(i). This I/N value would cause a maximum of 1.0 dB of degradation to the static threshold of the protected receiver.

Horizon Angle by Azimuth:

All values are in degrees

Azimuth	Horizon Angle
0.0	1.52
5.0	1.33
10.0	1.18
15.0	1.23
20.0	1.15
25.0	1.07
30.0	0.80
35.0	0.87
40.0	0.96
45.0	1.20
50.0	1.51
55.0	1.60
60.0	1.49
65.0	1.33
70.0	1.29
75.0	1.10
80.0	1.58
85.0	1.45
90.0	1.41
95.0	1.40
100.0	1.31
105.0	1.20
110.0	1.06
115.0	1.23
120.0	0.95
125.0	0.88
130.0	1.19
135.0	1.09
140.0	0.94
145.0	0.47
150.0	0.84
155.0	0.86
160.0	0.94
165.0	0.41
170.0	0.38
175.0	0.25
180.0	0.42
185.0	0.72
190.0	0.88
195.0	1.05



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200.0	1.05
205.0	1.55
210.0	2.63
215.0	2.47
220.0	2.35
225.0	2.03
230.0	2.05
235.0	1.79
240.0	2.41
245.0	2.45
250.0	2.00
255.0	2.57
260.0	2.89
265.0	2.78
270.0	2.83
275.0	2.15
280.0	2.05
285.0	2.02
290.0	2.40
295.0	2.38
300.0	2.25
305.0	1.77
310.0	1.80
315.0	1.80
320.0	1.80
325.0	1.78
330.0	1.63
335.0	1.70
340.0	1.68
345.0	1.55
350.0	1.43
355.0	1.39