

Ka,Q/V-Band Earth Station – Greenfield, CA.

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

June 25, 2026



Table of Contents

1.	Summary of Results	- 1 -
2.	40/50 GHz Common Carrier and LTTS Coordination	- 1 -
3.	28/40/50 GHz UMFUS Coordination	- 2 -
4.	Earth Station Coordination Data	- 3 -
5.	Contact Information	- 7 -



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 Greenfield, CA 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 June 25, 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 Greenfield, CA 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
AT&T	Statewide CA

A notification letter and datasheets for the Ka, Q/V-band earth station in Greenfield, CA 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
DCI II Inc	Nationwide
Broadcast Sports International	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 eight 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
Broadband One	Market Based
GeoLinks	Market Based
DISH Network	Market Based
Columbia Capital	Market Based
Monarch Wireless	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 Greenfield, CA. This data was circulated to all incumbent licensees in the shared 28/40/50 GHz frequency ranges.

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

Date: 05/27/2026
Job Number: 260527COMSGE07

Administrative Information

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

Site Information

GREENFIELD, CA
Venue Name: SALAD BOWL
Latitude (NAD 83): 36° 20' 16.1" N
Longitude (NAD 83): 121° 15' 21.6" W
Climate Zone: A
Rain Zone: 4
Ground Elevation (AMSL): 92.0 m / 301.8 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 – Greenfield, CA
Frequency Coordination Report
28/40/50 GHz

Coordination Values			GREENFIELD, CA			
Licensee Name			SpaceX Services, Inc			
Latitude (NAD 83)			36° 20' 16.1" N			
Longitude (NAD 83)			121° 15' 21.6" W			
Ground Elevation (AMSL)			92.0 m / 301.8 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	0.38	73.41	0.00	225.00	0.00	100.00
5	0.38	69.29	0.00	225.00	0.00	100.00
10	0.78	65.34	0.00	225.00	0.00	100.00
15	1.70	61.70	0.00	225.00	0.00	100.00
20	1.94	57.97	0.00	225.00	0.00	100.00
25	2.17	54.39	0.00	225.00	0.00	100.00
30	2.06	50.80	0.00	225.00	0.00	100.00
35	2.57	47.77	0.00	225.00	0.00	100.00
40	2.42	44.59	0.00	225.00	0.00	100.00
45	2.04	41.50	0.00	225.00	0.00	100.00
50	1.92	38.92	0.00	225.00	0.00	100.00
55	1.27	36.29	0.00	225.00	0.00	100.00
60	1.08	34.52	0.00	225.00	0.00	100.00
65	1.40	33.83	0.00	225.00	0.00	100.00
70	1.58	33.65	0.00	225.00	0.00	100.00
75	1.41	33.78	0.00	225.00	0.00	100.00
80	0.93	34.26	0.00	225.00	0.00	100.00
85	0.92	35.80	0.00	225.00	0.00	100.00
90	0.60	37.62	0.00	225.00	0.00	100.00
95	1.00	40.46	0.00	225.00	0.00	100.00
100	1.16	43.45	0.00	225.00	0.00	100.00
105	0.48	46.18	0.00	225.00	0.00	100.00
110	0.00	49.36	0.00	225.00	0.00	100.00
115	0.00	53.02	0.00	225.00	0.00	100.00
120	0.00	56.82	0.00	225.00	0.00	100.00
125	0.00	60.74	0.00	225.00	0.00	100.00
130	0.00	64.75	0.00	225.00	0.00	100.00
135	0.00	68.83	0.00	225.00	0.00	100.00
140	0.00	72.97	0.00	225.00	0.00	100.00
145	0.00	77.14	0.00	225.00	0.00	100.00
150	0.24	81.37	0.00	225.00	0.00	100.00
155	0.32	85.59	0.00	225.00	0.00	100.00
160	0.38	89.81	0.00	225.00	0.00	100.00
165	0.45	94.03	0.00	225.00	0.00	100.00
170	0.64	98.22	0.00	225.00	0.00	100.00
175	1.13	102.32	0.00	225.00	0.00	100.00
180	1.88	106.30	0.00	225.00	0.00	100.00
185	2.65	110.15	0.00	225.00	0.00	100.00

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

Coordination Values			GREENFIELD, CA			
Licensee Name			SpaceX Services, Inc			
Latitude (NAD 83)			36° 20' 16.1" N			
Longitude (NAD 83)			121° 15' 21.6" W			
Ground Elevation (AMSL)			92.0 m / 301.8 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	2.38	114.18	0.00	225.00	0.00	100.00
195	2.69	117.95	0.00	225.00	0.00	100.00
200	2.93	121.61	0.00	225.00	0.00	100.00
205	2.46	125.47	0.00	225.00	0.00	100.00
210	1.73	129.38	0.00	225.00	0.00	100.00
215	0.40	133.57	0.00	225.00	0.00	100.00
220	0.24	136.91	0.00	225.00	0.00	100.00
225	0.33	139.80	0.00	225.00	0.00	100.00
230	0.45	142.30	0.00	225.00	0.00	100.00
235	1.54	143.48	0.00	225.00	0.00	100.00
240	1.88	144.72	0.00	225.00	0.00	100.00
245	2.16	145.42	0.00	225.00	0.00	100.00
250	1.79	146.14	0.00	225.00	0.00	100.00
255	1.26	146.37	0.00	225.00	0.00	100.00
260	1.37	145.32	0.00	225.00	0.00	100.00
265	1.11	144.02	0.00	225.00	0.00	100.00
270	0.77	142.25	0.00	225.00	0.00	100.00
275	0.73	139.75	0.00	225.00	0.00	100.00
280	0.57	136.96	0.00	225.00	0.00	100.00
285	0.39	133.87	0.00	225.00	0.00	100.00
290	0.00	130.64	0.00	225.00	0.00	100.00
295	0.00	126.98	0.00	225.00	0.00	100.00
300	0.00	123.18	0.00	225.00	0.00	100.00
305	0.00	119.26	0.00	225.00	0.00	100.00
310	0.00	115.25	0.00	225.00	0.00	100.00
315	0.00	111.17	0.00	225.00	0.00	100.00
320	0.00	107.03	0.00	225.00	0.00	100.00
325	0.00	102.86	0.00	225.00	0.00	100.00
330	0.00	98.65	0.00	225.00	0.00	100.00
335	0.00	94.42	0.00	225.00	0.00	100.00
340	0.00	90.19	0.00	225.00	0.00	100.00
345	0.00	85.95	0.00	225.00	0.00	100.00
350	0.00	81.73	0.00	225.00	0.00	100.00
355	0.00	77.52	0.00	225.00	0.00	100.00

Date: 05/27/2026
Job Number: 260527COMSGE07

Administrative Information

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

Site Information

GREENFIELD, CA
Venue Name: SALAD BOWL
Latitude (NAD 83): 36° 20' 16.1" N
Longitude (NAD 83): 121° 15' 21.6" W
Climate Zone: A
Rain Zone: 4
Ground Elevation (AMSL): 92.0 m / 301.8 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: SpaceX
Model: 1.99 meter
Gain / Diameter: 55.9 dBi / 2.0 m
3-dB / 15-dB Beamwidth: 0.25° / 0.50°

Receive - FCC32

Transmit - FCC32

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

-47.8
-23.8

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

10.3
34.3

Aggregate EIRP (dBW/MHz)

34.3

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 40.0 GHz

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
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 – Greenfield, CA
Frequency Coordination Report
28/40/50 GHz

Coordination Values			GREENFIELD, CA			
Licensee Name			SpaceX Services, Inc			
Latitude (NAD 83)			36° 20' 16.1" N			
Longitude (NAD 83)			121° 15' 21.6" W			
Ground Elevation (AMSL)			92.0 m / 301.8 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	0.38	73.41	0.00	225.00	0.00	100.00
5	0.38	69.29	0.00	225.00	0.00	100.00
10	0.78	65.34	0.00	225.00	0.00	100.00
15	1.70	61.70	0.00	225.00	0.00	100.00
20	1.94	57.97	0.00	225.00	0.00	100.00
25	2.17	54.39	0.00	225.00	0.00	100.00
30	2.06	50.80	0.00	225.00	0.00	100.00
35	2.57	47.77	0.00	225.00	0.00	100.00
40	2.42	44.59	0.00	225.00	0.00	100.00
45	2.04	41.50	0.00	225.00	0.00	100.00
50	1.92	38.92	0.00	225.00	0.00	100.00
55	1.27	36.29	0.00	225.00	0.00	100.00
60	1.08	34.52	0.00	225.00	0.00	100.00
65	1.40	33.83	0.00	225.00	0.00	100.00
70	1.58	33.65	0.00	225.00	0.00	100.00
75	1.41	33.78	0.00	225.00	0.00	100.00
80	0.93	34.26	0.00	225.00	0.00	100.00
85	0.92	35.80	0.00	225.00	0.00	100.00
90	0.60	37.62	0.00	225.00	0.00	100.00
95	1.00	40.46	0.00	225.00	0.00	100.00
100	1.16	43.45	0.00	225.00	0.00	100.00
105	0.48	46.18	0.00	225.00	0.00	100.00
110	0.00	49.36	0.00	225.00	0.00	100.00
115	0.00	53.02	0.00	225.00	0.00	100.00
120	0.00	56.82	0.00	225.00	0.00	100.00
125	0.00	60.74	0.00	225.00	0.00	100.00
130	0.00	64.75	0.00	225.00	0.00	100.00
135	0.00	68.83	0.00	225.00	0.00	100.00
140	0.00	72.97	0.00	225.00	0.00	100.00
145	0.00	77.14	0.00	225.00	0.00	100.00
150	0.24	81.37	0.00	225.00	0.00	100.00
155	0.32	85.59	0.00	225.00	0.00	100.00
160	0.38	89.81	0.00	225.00	0.00	100.00
165	0.45	94.03	0.00	225.00	0.00	100.00
170	0.64	98.22	0.00	225.00	0.00	100.00
175	1.13	102.32	0.00	225.00	0.00	100.00
180	1.88	106.30	0.00	225.00	0.00	100.00
185	2.65	110.15	0.00	225.00	0.00	100.00

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

Coordination Values		GREENFIELD, CA				
Licensee Name		SpaceX Services, Inc				
Latitude (NAD 83)		36° 20' 16.1" N				
Longitude (NAD 83)		121° 15' 21.6" W				
Ground Elevation (AMSL)		92.0 m / 301.8 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	2.38	114.18	0.00	225.00	0.00	100.00
195	2.69	117.95	0.00	225.00	0.00	100.00
200	2.93	121.61	0.00	225.00	0.00	100.00
205	2.46	125.47	0.00	225.00	0.00	100.00
210	1.73	129.38	0.00	225.00	0.00	100.00
215	0.40	133.57	0.00	225.00	0.00	100.00
220	0.24	136.91	0.00	225.00	0.00	100.00
225	0.33	139.80	0.00	225.00	0.00	100.00
230	0.45	142.30	0.00	225.00	0.00	100.00
235	1.54	143.48	0.00	225.00	0.00	100.00
240	1.88	144.72	0.00	225.00	0.00	100.00
245	2.16	145.42	0.00	225.00	0.00	100.00
250	1.79	146.14	0.00	225.00	0.00	100.00
255	1.26	146.37	0.00	225.00	0.00	100.00
260	1.37	145.32	0.00	225.00	0.00	100.00
265	1.11	144.02	0.00	225.00	0.00	100.00
270	0.77	142.25	0.00	225.00	0.00	100.00
275	0.73	139.75	0.00	225.00	0.00	100.00
280	0.57	136.96	0.00	225.00	0.00	100.00
285	0.39	133.87	0.00	225.00	0.00	100.00
290	0.00	130.64	0.00	225.00	0.00	100.00
295	0.00	126.98	0.00	225.00	0.00	100.00
300	0.00	123.18	0.00	225.00	0.00	100.00
305	0.00	119.26	0.00	225.00	0.00	100.00
310	0.00	115.25	0.00	225.00	0.00	100.00
315	0.00	111.17	0.00	225.00	0.00	100.00
320	0.00	107.03	0.00	225.00	0.00	100.00
325	0.00	102.86	0.00	225.00	0.00	100.00
330	0.00	98.65	0.00	225.00	0.00	100.00
335	0.00	94.42	0.00	225.00	0.00	100.00
340	0.00	90.19	0.00	225.00	0.00	100.00
345	0.00	85.95	0.00	225.00	0.00	100.00
350	0.00	81.73	0.00	225.00	0.00	100.00
355	0.00	77.52	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
GREENFIELD, CA
Satellite Earth Station

Prepared By:
COMSEARCH
21515 Ridgetop Circle, Suite 300
Sterling, VA 20166
June 25, 2026

TABLE OF CONTENTS

1. CONCLUSIONS 3

2. SUMMARY OF RESULTS 4

3. SUPPLEMENTAL SHOWING 5

4. EARTH STATION COORDINATION DATA..... 8

5. CERTIFICATION..... 15

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 05/27/2026.

Company

AT&T Enterprises, LLC
AT&T Mobility Spectrum LLC - N CA
AT&T Mobility Spectrum LLC - Southern CA
Aera Energy LLC
Alameda County Water District
Alameda County of California
Alpha Media Licensee LLC
Another ISP, LLC
Antioch, City of
Audacy License, LLC
BNSF Railway Company
Bay Area Infrastructure Financing Author
Bonneville International Corporation
CBS Broadcasting Inc
CBS Communications Services Inc.
CVIN/Vast Networks
Cal.net, Inc.
California Internet, LLC dba GeoLinks
California Water Service Company
California, State of
Capitola PD
Cellco Partnership - N CA/NV
Central Valley Concrete, Inc.
Chevron USA Inc.
Chumash Enterprises
City & County of San Francisco PUC
City of Daly City
City of Fresno
City of Merced
City of Newman
City of Oakland
City of Pittsburg, CA Police Dept
City of San Jose
Coastside Net, Inc.
Conterra Ultra Broadband, LLC
Contra Costa Water District
County of Fresno
County of Monterey
County of Napa
County of San Mateo

Cox Communications, Inc.
Dish Wireless LLC
Dublin San Ramon
Eastern Contra Costa Transit
Entravision Holdings, LLC
Etheric Networks, Inc.
Ezwave
Fox Television Stations Inc, KTVU
Fresno County Office of Education
Fresno MSA Limited Partnership
Fresno, City of Water Waste Division
GTE Mobilnet of California LTD Partnersh
Gilcomm, LLC
Global Data Link, Inc
Hornitos Telephone Company
ISP Industries LLC
Integrity Networks, LLC
Interwest Management Services Inc.
John Muir Health
Justin Vineyards and Winery, LLC
KGO Television, Inc.
Kern County Superintendent of Schools
Kern Ed Telecom Consortium
Kern Schools Federal Credit Union
Kern, County of
Kings Canyon Unified School District
Kings County Office of Education
Kingsburg Media Foundation
Lange Twins, Inc.
M.U.T. Licensing, LLC
Merced County Office of Education
Midpeninsula Regional Open Space Dist.
Modern Systems Research, Inc.
Modesto, City of
Monterey Bay Aquarium
Monterey County Superintendent of School
Muir Beach Community Services District
NBC Telemundo License LLC
New Cingular Wireless PCS - Los Angeles
New Cingular Wireless PCS LLC - N CAL
New Cingular Wireless PCS, LLC - S/E CAL
Nextweb Inc
North Central Fire Protection District
OACYS Technology
Oakland Police Department
Olympic Wireless, LLC
One Putt
Pacific Bell Tel Com dba AT&T California
Pacific Gas and Electric Company
Peak WiFi, LLC
Razzo Link, Inc
Regents of the University of California
Ridge Wireless
Rural Cellular Corporation
SAN JOSE WATER COMPANY
Sacramento Valley Limited Partnership

Sail Internet
San Francisco Bay Area Rapid Transit Dis
San Francisco, City and County of
San Francisco, City and County of
San Joaquin, County of
San Jose Water Company
San Jose, City of (ECOMM)
San Luis Obispo, County of
San Simeon Community Cable Inc
Santa Barbara Cellular Systems, Ltd.
Santa Barbara, County of
Santa Clara, County of
Sierra Nevada Communications
Sierra Unified School District
Skyriver Communications
Softcom Internet Communications, Inc.
South Valley Internet Incorporated
Spectrum Pacific West, LLC
Stanford Health Care
Stockton, City of
Stockton, Port of
Sun Microwave
Surfnet Communications, Inc.
Sutro Tower Inc.
T-Mobile MW LLC
Tanji Wireless
Tekify, LLC
The Internet Connection Inc
The Internet Store, Inc.
Towerstream Corp.
Tulare, City of
Tulare, County of
Turn Wireless, LLC
Union Pacific Railroad Company
United Launch Alliance
Unwired LTD
UnwiredWest, LLC
Valley Strong Credit Union
Velociter Wireless, Inc.
Vista Broadband Networks, Inc.
Vistawest California, LLC
Watsonville, City of
Webpass Inc.
Wiline Spectrum Holdings LLC
Willowweb LLC
Wonderful Pistachio & Almond
XO Communications, LLC
unWired Broadband, Inc

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: 05/27/2026
Job Number: 260527COMSGE07

Administrative Information

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

Site Information

GREENFIELD, CA
Venue Name SALAD BOWL
Latitude (NAD 83) 36° 20' 16.1" N
Longitude (NAD 83) 121° 15' 21.6" W
Climate Zone A
Rain Zone 4
Ground Elevation (AMSL) 92.0 m / 301.8 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		GREENFIELD, CA			
Licensee Name		SpaceX Services, Inc			
Latitude (NAD 83)		36° 20' 16.1" N			
Longitude (NAD 83)		121° 15' 21.6" W			
Ground Elevation (AMSL)		92.0 m / 301.8 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	0.38	73.41	0.00	225.00	0.00	100.00
5	0.38	69.29	0.00	225.00	0.00	100.00
10	0.78	65.34	0.00	225.00	0.00	100.00
15	1.70	61.70	0.00	225.00	0.00	100.00
20	1.94	57.97	0.00	225.00	0.00	100.00
25	2.17	54.39	0.00	225.00	0.00	100.00
30	2.06	50.80	0.00	225.00	0.00	100.00
35	2.57	47.77	0.00	225.00	0.00	100.00
40	2.42	44.59	0.00	225.00	0.00	100.00
45	2.04	41.50	0.00	225.00	0.00	100.00
50	1.92	38.92	0.00	225.00	0.00	100.00
55	1.27	36.29	0.00	225.00	0.00	100.00
60	1.08	34.52	0.00	225.00	0.00	100.00
65	1.40	33.83	0.00	225.00	0.00	100.00
70	1.58	33.65	0.00	225.00	0.00	100.00
75	1.41	33.78	0.00	225.00	0.00	100.00
80	0.93	34.26	0.00	225.00	0.00	100.00
85	0.92	35.80	0.00	225.00	0.00	100.00
90	0.60	37.62	0.00	225.00	0.00	100.00
95	1.00	40.46	0.00	225.00	0.00	100.00
100	1.16	43.45	0.00	225.00	0.00	100.00
105	0.48	46.18	0.00	225.00	0.00	100.00
110	0.00	49.36	0.00	225.00	0.00	100.00
115	0.00	53.02	0.00	225.00	0.00	100.00
120	0.00	56.82	0.00	225.00	0.00	100.00
125	0.00	60.74	0.00	225.00	0.00	100.00
130	0.00	64.75	0.00	225.00	0.00	100.00
135	0.00	68.83	0.00	225.00	0.00	100.00
140	0.00	72.97	0.00	225.00	0.00	100.00
145	0.00	77.14	0.00	225.00	0.00	100.00
150	0.24	81.37	0.00	225.00	0.00	100.00
155	0.32	85.59	0.00	225.00	0.00	100.00
160	0.38	89.81	0.00	225.00	0.00	100.00
165	0.45	94.03	0.00	225.00	0.00	100.00
170	0.64	98.22	0.00	225.00	0.00	100.00
175	1.13	102.32	0.00	225.00	0.00	100.00
180	1.88	106.30	0.00	225.00	0.00	100.00
185	2.65	110.15	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		GREENFIELD, CA			
Licensee Name		SpaceX Services, Inc			
Latitude (NAD 83)		36° 20' 16.1" N			
Longitude (NAD 83)		121° 15' 21.6" W			
Ground Elevation (AMSL)		92.0 m / 301.8 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	2.38	114.18	0.00	225.00	0.00	100.00
195	2.69	117.95	0.00	225.00	0.00	100.00
200	2.93	121.61	0.00	225.00	0.00	100.00
205	2.46	125.47	0.00	225.00	0.00	100.00
210	1.73	129.38	0.00	225.00	0.00	100.00
215	0.40	133.57	0.00	225.00	0.00	100.00
220	0.24	136.91	0.00	225.00	0.00	100.00
225	0.33	139.80	0.00	225.00	0.00	100.00
230	0.45	142.30	0.00	225.00	0.00	100.00
235	1.54	143.48	0.00	225.00	0.00	100.00
240	1.88	144.72	0.00	225.00	0.00	100.00
245	2.16	145.42	0.00	225.00	0.00	100.00
250	1.79	146.14	0.00	225.00	0.00	100.00
255	1.26	146.37	0.00	225.00	0.00	100.00
260	1.37	145.32	0.00	225.00	0.00	100.00
265	1.11	144.02	0.00	225.00	0.00	100.00
270	0.77	142.25	0.00	225.00	0.00	100.00
275	0.73	139.75	0.00	225.00	0.00	100.00
280	0.57	136.96	0.00	225.00	0.00	100.00
285	0.39	133.87	0.00	225.00	0.00	100.00
290	0.00	130.64	0.00	225.00	0.00	100.00
295	0.00	126.98	0.00	225.00	0.00	100.00
300	0.00	123.18	0.00	225.00	0.00	100.00
305	0.00	119.26	0.00	225.00	0.00	100.00
310	0.00	115.25	0.00	225.00	0.00	100.00
315	0.00	111.17	0.00	225.00	0.00	100.00
320	0.00	107.03	0.00	225.00	0.00	100.00
325	0.00	102.86	0.00	225.00	0.00	100.00
330	0.00	98.65	0.00	225.00	0.00	100.00
335	0.00	94.42	0.00	225.00	0.00	100.00
340	0.00	90.19	0.00	225.00	0.00	100.00
345	0.00	85.95	0.00	225.00	0.00	100.00
350	0.00	81.73	0.00	225.00	0.00	100.00
355	0.00	77.52	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: 05/27/2026
Job Number: 260527COMSGE07

Administrative Information

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

Site Information

GREENFIELD, CA
Venue Name: SALAD BOWL
Latitude (NAD 83): 36° 20' 16.1" N
Longitude (NAD 83): 121° 15' 21.6" W
Climate Zone: A
Rain Zone: 4
Ground Elevation (AMSL): 92.0 m / 301.8 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

Emission / Frequency Range (MHz)

Receive 40.0 GHz

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
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

GREENFIELD, CA

Licensee Name SpaceX Services, Inc
Latitude (NAD 83) 36° 20' 16.1" N
Longitude (NAD 83) 121° 15' 21.6" W
Ground Elevation (AMSL) 92.0 m / 301.8 ft
Antenna Centerline (AGL) 1.4 m / 4.6 ft
Antenna Model SpaceX 1.99 meter

Antenna Mode Receive 40.0 GHz

Interference Objectives: Long Term -156.0 dBW/MHz 20% Transmit 50.0 GHz -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	0.38	73.41	0.00	225.00	0.00	100.00
5	0.38	69.29	0.00	225.00	0.00	100.00
10	0.78	65.34	0.00	225.00	0.00	100.00
15	1.70	61.70	0.00	225.00	0.00	100.00
20	1.94	57.97	0.00	225.00	0.00	100.00
25	2.17	54.39	0.00	225.00	0.00	100.00
30	2.06	50.80	0.00	225.00	0.00	100.00
35	2.57	47.77	0.00	225.00	0.00	100.00
40	2.42	44.59	0.00	225.00	0.00	100.00
45	2.04	41.50	0.00	225.00	0.00	100.00
50	1.92	38.92	0.00	225.00	0.00	100.00
55	1.27	36.29	0.00	225.00	0.00	100.00
60	1.08	34.52	0.00	225.00	0.00	100.00
65	1.40	33.83	0.00	225.00	0.00	100.00
70	1.58	33.65	0.00	225.00	0.00	100.00
75	1.41	33.78	0.00	225.00	0.00	100.00
80	0.93	34.26	0.00	225.00	0.00	100.00
85	0.92	35.80	0.00	225.00	0.00	100.00
90	0.60	37.62	0.00	225.00	0.00	100.00
95	1.00	40.46	0.00	225.00	0.00	100.00
100	1.16	43.45	0.00	225.00	0.00	100.00
105	0.48	46.18	0.00	225.00	0.00	100.00
110	0.00	49.36	0.00	225.00	0.00	100.00
115	0.00	53.02	0.00	225.00	0.00	100.00
120	0.00	56.82	0.00	225.00	0.00	100.00
125	0.00	60.74	0.00	225.00	0.00	100.00
130	0.00	64.75	0.00	225.00	0.00	100.00
135	0.00	68.83	0.00	225.00	0.00	100.00
140	0.00	72.97	0.00	225.00	0.00	100.00
145	0.00	77.14	0.00	225.00	0.00	100.00
150	0.24	81.37	0.00	225.00	0.00	100.00
155	0.32	85.59	0.00	225.00	0.00	100.00
160	0.38	89.81	0.00	225.00	0.00	100.00
165	0.45	94.03	0.00	225.00	0.00	100.00
170	0.64	98.22	0.00	225.00	0.00	100.00
175	1.13	102.32	0.00	225.00	0.00	100.00
180	1.88	106.30	0.00	225.00	0.00	100.00
185	2.65	110.15	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

GREENFIELD, CA

Licensee Name SpaceX Services, Inc
Latitude (NAD 83) 36° 20' 16.1" N
Longitude (NAD 83) 121° 15' 21.6" W
Ground Elevation (AMSL) 92.0 m / 301.8 ft
Antenna Centerline (AGL) 1.4 m / 4.6 ft
Antenna Model SpaceX 1.99 meter

Antenna Mode Receive 40.0 GHz

Interference Objectives: Long Term -156.0 dBW/MHz 20% Transmit 50.0 GHz -151.0 dBW/4 kHz 20%

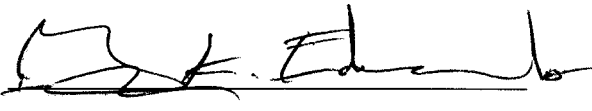
Short Term -146.0 dBW/MHz 0.01% -128.0 dBW/4 kHz 0.0025%

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	2.38	114.18	0.00	225.00	0.00	100.00
195	2.69	117.95	0.00	225.00	0.00	100.00
200	2.93	121.61	0.00	225.00	0.00	100.00
205	2.46	125.47	0.00	225.00	0.00	100.00
210	1.73	129.38	0.00	225.00	0.00	100.00
215	0.40	133.57	0.00	225.00	0.00	100.00
220	0.24	136.91	0.00	225.00	0.00	100.00
225	0.33	139.80	0.00	225.00	0.00	100.00
230	0.45	142.30	0.00	225.00	0.00	100.00
235	1.54	143.48	0.00	225.00	0.00	100.00
240	1.88	144.72	0.00	225.00	0.00	100.00
245	2.16	145.42	0.00	225.00	0.00	100.00
250	1.79	146.14	0.00	225.00	0.00	100.00
255	1.26	146.37	0.00	225.00	0.00	100.00
260	1.37	145.32	0.00	225.00	0.00	100.00
265	1.11	144.02	0.00	225.00	0.00	100.00
270	0.77	142.25	0.00	225.00	0.00	100.00
275	0.73	139.75	0.00	225.00	0.00	100.00
280	0.57	136.96	0.00	225.00	0.00	100.00
285	0.39	133.87	0.00	225.00	0.00	100.00
290	0.00	130.64	0.00	225.00	0.00	100.00
295	0.00	126.98	0.00	225.00	0.00	100.00
300	0.00	123.18	0.00	225.00	0.00	100.00
305	0.00	119.26	0.00	225.00	0.00	100.00
310	0.00	115.25	0.00	225.00	0.00	100.00
315	0.00	111.17	0.00	225.00	0.00	100.00
320	0.00	107.03	0.00	225.00	0.00	100.00
325	0.00	102.86	0.00	225.00	0.00	100.00
330	0.00	98.65	0.00	225.00	0.00	100.00
335	0.00	94.42	0.00	225.00	0.00	100.00
340	0.00	90.19	0.00	225.00	0.00	100.00
345	0.00	85.95	0.00	225.00	0.00	100.00
350	0.00	81.73	0.00	225.00	0.00	100.00
355	0.00	77.52	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: June 25, 2026



E-band Frequency Coordination Report

The “Salad Bowl” Gateway (Greenfield, CA)

May 26, 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 June 10, 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. Alpha Omega Wireless, Inc.
2. Ayera Technologies, Inc.
3. Boingo Wireless, Inc.
4. Broadband One of California LLC
5. Cal.net, Inc.
6. California Internet, LLC dba GeoLinks
7. California Resources Corporation
8. Cellco Partnership
9. Central Valley Internet
10. Circle Computer Resources, Inc.
11. Collinear Networks, Inc.
12. Common Networks, Inc.
13. Etheric Networks, Inc.
14. John Paul Mitchell System

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. KINGS COUNTY OFFICE OF EDUCATION
16. Lerman Senter PLLC
17. Micronet Communications, Inc.
18. Outback Internet LLC
19. REMEC Broadband Wireless Networks LLC DBA Bridgewave Communications
20. Razzolink, Inc
21. Ridge Wireless Inc.
22. Sail Internet, Inc.
23. Siklu, Inc
24. South Valley Internet Inc.
25. SpaceX
26. Sun Microwave
27. Surfnet Communications
28. T-MOBILE LICENSE LLC
29. The Internet Store INC, DBA as Cruzio
30. University of California Santa Cruz
31. Unwired Ltd
32. Verizon
33. West Hills College Coalinga
34. WiLine Spectrum Holdings LLC
35. Willoweb LLC
36. unWired Broadband, 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 "Salad Bowl" Gateway
- Transmitting station coordinates: 36.33782, -121.256
- Ground Elevation (AMSL): 92 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	1.81
5.0	1.85
10.0	1.96
15.0	1.99
20.0	2.84
25.0	3.33
30.0	3.85
35.0	2.70
40.0	2.42
45.0	1.96
50.0	1.91
55.0	1.53
60.0	1.79
65.0	1.61
70.0	1.52
75.0	1.43
80.0	1.36
85.0	1.42
90.0	1.59
95.0	1.41
100.0	1.20
105.0	0.86
110.0	0.80
115.0	0.63
120.0	0.47
125.0	0.36
130.0	0.21
135.0	0.08
140.0	0.09
145.0	0.26
150.0	0.52
155.0	0.55
160.0	1.21
165.0	1.95
170.0	1.80
175.0	2.27
180.0	2.36
185.0	2.83
190.0	2.63
195.0	2.59



Frequency Coordination Report
E-Band Earth Station

200.0	2.95
205.0	2.63
210.0	3.71
215.0	3.59
220.0	3.03
225.0	3.10
230.0	2.15
235.0	3.14
240.0	3.97
245.0	4.23
250.0	4.16
255.0	4.07
260.0	3.42
265.0	3.56
270.0	3.84
275.0	4.13
280.0	4.10
285.0	3.52
290.0	3.04
295.0	2.16
300.0	1.68
305.0	1.16
310.0	0.06
315.0	-0.13
320.0	-0.16
325.0	-0.04
330.0	0.49
335.0	0.78
340.0	1.00
345.0	1.89
350.0	1.58
355.0	1.85